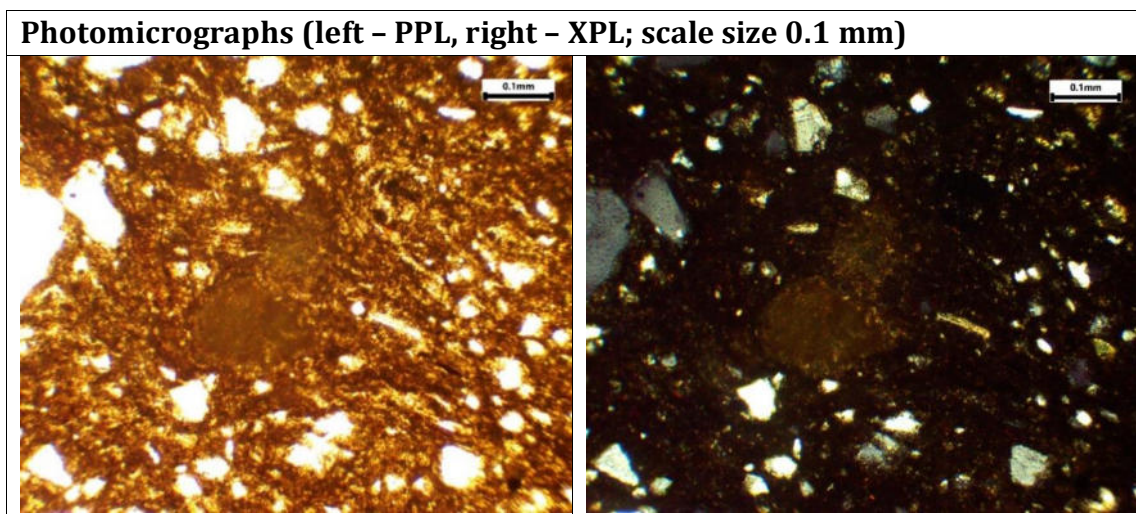


Catalogue 3: Pottery sherds

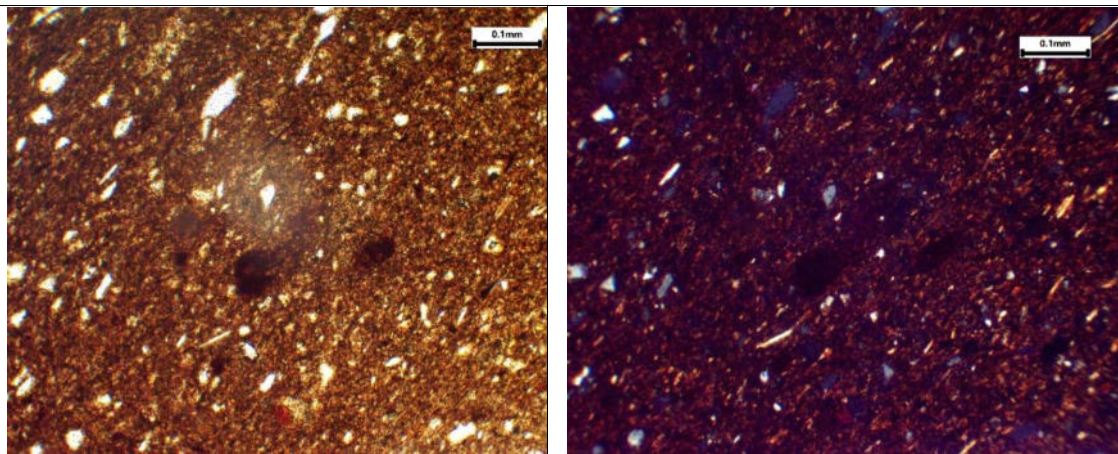
Sample code: CNP1 MFEA Museum Number: K.11999:415 Site: Majiayao	Fabric group: 7; Semi-coarse, Quartz dominant				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC:					
Rim and upper body sherd; reduced core, oxidised margins; polished and painted black with appliqué; max. wall thickness 5.8 mm, rim 6.8 mm.					
MICROSCOPIC:					
Non-plastic inclusions 20-30%					
<table> <tr> <th>Coarse 30%</th><th>Fine 70%</th></tr> <tr> <td> - quartz (eq, el; ang – s-rnd; FSa-CSa) 80% - micritic calcite (eq; ang – rnd; FSa-CSa) 19.9% - plagioclase feldspar (el; s-ang; MSa) 0.1% </td><td> - quartz 60% - mica 30% - feldspar 10% </td></tr> </table>	Coarse 30%	Fine 70%	- quartz (eq, el; ang – s-rnd; FSa-CSa) 80% - micritic calcite (eq; ang – rnd; FSa-CSa) 19.9% - plagioclase feldspar (el; s-ang; MSa) 0.1%	- quartz 60% - mica 30% - feldspar 10%	
Coarse 30%	Fine 70%				
- quartz (eq, el; ang – s-rnd; FSa-CSa) 80% - micritic calcite (eq; ang – rnd; FSa-CSa) 19.9% - plagioclase feldspar (el; s-ang; MSa) 0.1%	- quartz 60% - mica 30% - feldspar 10%				

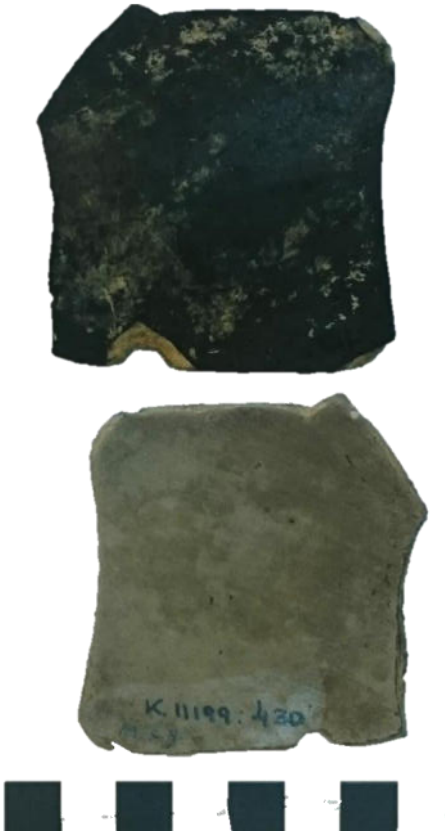
Matrix 67-77%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	dark brown to grey / dark brown	none
Voids 1-3%				
Type and size			Distinct characteristics	
macro/meso channels, vughs, vesicles			none	



Sample code: CNP2		Fabric group: 2A; Fine Mica-Quartz-		
MFEA Museum Number: K.11199:429		Feldspar with lesser inclusion		
Site: Majiayao		frequency than Fabric 1		
Sherd photo		Fabric photo		
				
		Thin section scan		
				
Description				
MACROSCOPIC:				
Body sherd; slightly reduced outer half, oxidised inner half; polished and painted black; max. wall thickness 5 mm.				
MICROSCOPIC:				
Non-plastic inclusions 20%				
Coarse 0 %		Fine 100%		
none		• mica 65% • quartz 30% • feldspar 5%		
Matrix 70%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	brown/ golden dark brown or grey	FSa-MSa clay pellets 3-5% of the matrix
Voids 5-10%				
Type and size			Distinct characteristics	
macro/meso channels, vughs, vesicles			none	

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP3 MFEA Museum Number: K.11199:430 Site: Majiayao	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC: Body sherd; fired in reducing atmosphere; plain, polished; max. wall thickness 5 mm. MICROSCOPIC: Non-plastic inclusions 10-20% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 45% • quartz 40% • feldspar 10% • calcite 5% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 45% • quartz 40% • feldspar 10% • calcite 5%
Coarse 0%	Fine 100%				
none	• mica 45% • quartz 40% • feldspar 10% • calcite 5%				

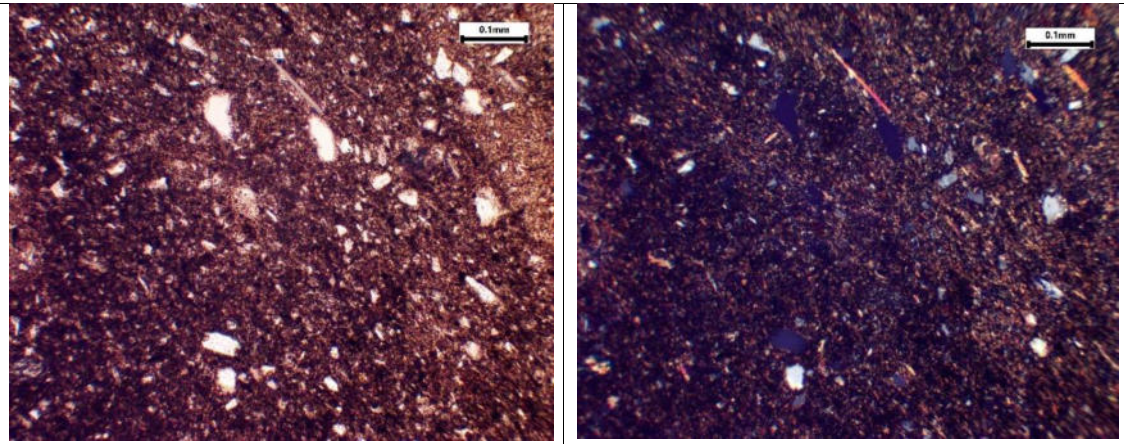
Matrix 75-85%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	well	active	brown to dark brown/ golden brown	heterogeneity because of unstable firing control or mixing?

Voids 5%

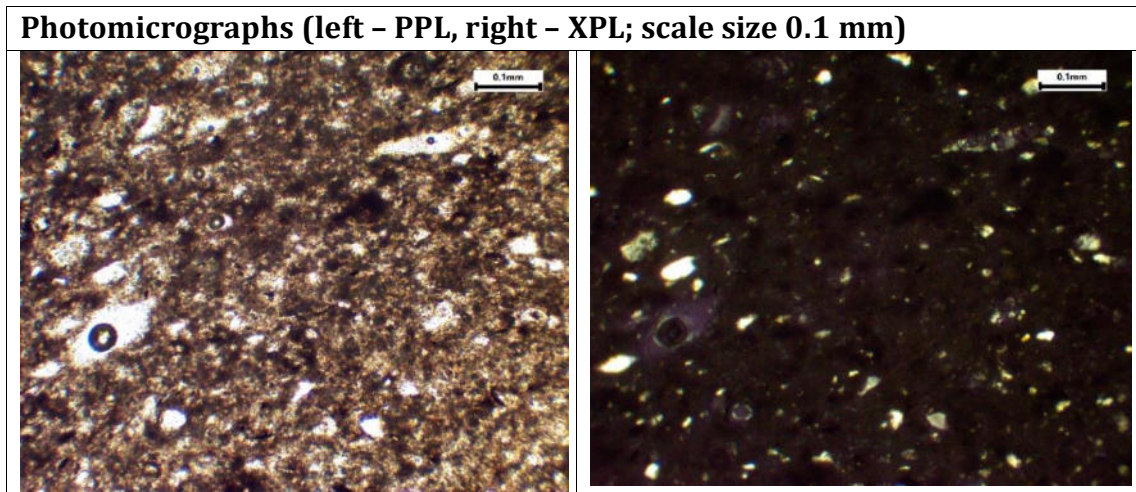
Type and size	Distinct characteristics
meso vughs, vesicles	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP4 MFEA Museum Number: K.11199:433 Site: Majiayao	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body sherd; fired in reducing atmosphere; polished and painted black; max. wall thickness 4 mm. MICROSCOPIC: Non-plastic inclusions 10-20% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> - quartz 90% - feldspar 10% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	- quartz 90% - feldspar 10%
Coarse 0%	Fine 100%				
none	- quartz 90% - feldspar 10%				

Matrix 75-85%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	inactive	dark grey to black / dark grey	overfired sherd?
Voids 3-5%				
Type and size			Distinct characteristics	
macro/meso vughs, vesicles			none	



Sample code: CNP5 MFEA Museum Number: K.11999:452 Site: Majiayao	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1
Sherd photo	Fabric photo
	
	Thin section scan
	

Description

MACROSCOPIC:

Rim and upper body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 5.7 mm.

MICROSCOPIC:

Non-plastic inclusions 5-10%

Coarse 0%	Fine 100%
none	• mica 50% • quartz 45% • feldspar 5%

Matrix 75-85%

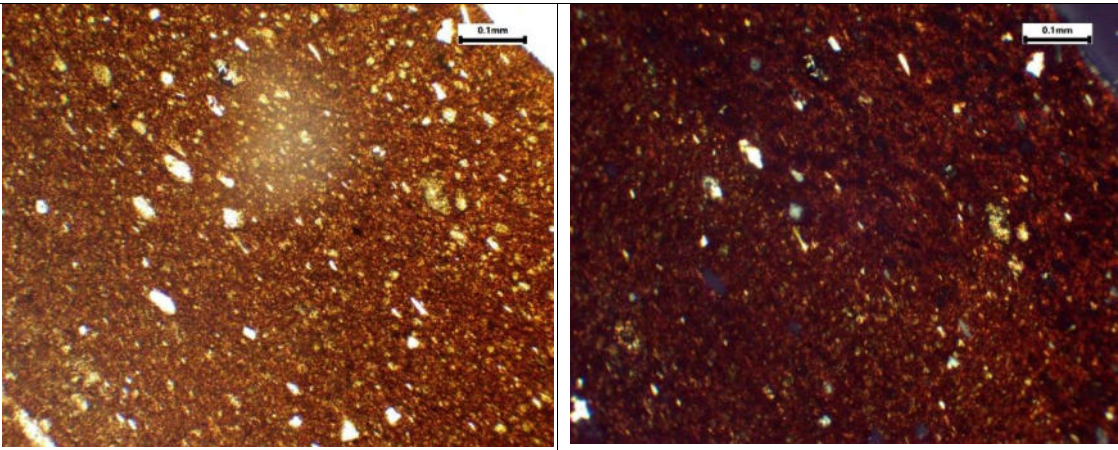
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	brown/ golden brown	dispersed secondary or re-deposited natural

calcite in the voids and matrix?

Voids 5-10%

Type and size	Distinct characteristics
macro/meso vughs, vesicles, channels	1 macro vugh is the result on folding the clay to shape the rim; voids are filled with secondary calcite

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP6 MFEA Museum Number: K.11999:461 Site: Majiayao	Fabric group: 1; Fine, Mica-Quartz-Feldspar				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 7.5 mm. MICROSCOPIC: Non-plastic inclusions 20-30% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 55% • quartz 40% • feldspar 5% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 55% • quartz 40% • feldspar 5%
Coarse 0%	Fine 100%				
none	• mica 55% • quartz 40% • feldspar 5%				

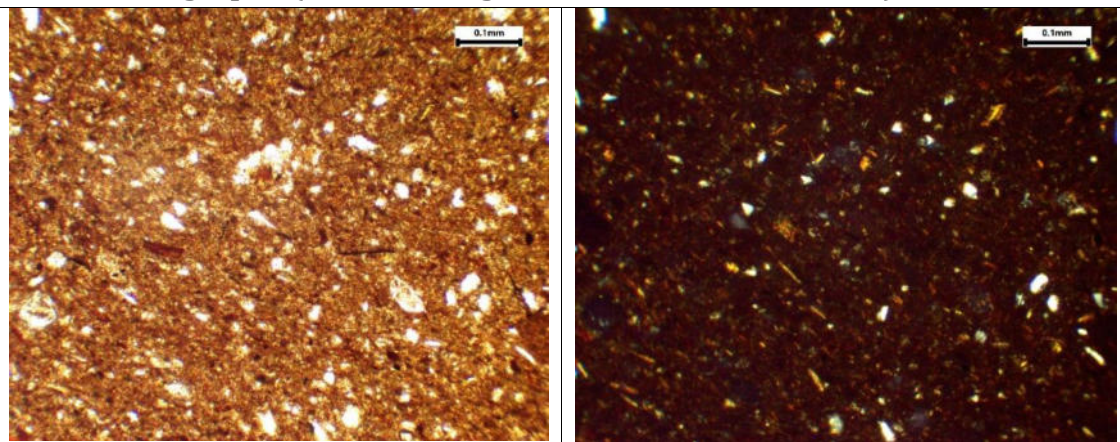
Matrix 67-77%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	dark brown / golden brown	Possibly from the same vessel as CNP7 and CNP8

Voids 3%

Type and size	Distinct characteristics
macro/meso vughs, vesicles	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP7 MFEA Museum Number: K.11199:462 Site: Majiayao	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description MACROSCOPIC: Body sherd; outer margin looks light grey, the inner red-orange, there is a clear line between the two halves; polished and painted black; max. wall thickness 6.5 mm. MICROSCOPIC: Non-plastic inclusions 10-20% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 55% • quartz 45% • feldspar 5% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 55% • quartz 45% • feldspar 5%
Coarse 0%	Fine 100%				
none	• mica 55% • quartz 45% • feldspar 5%				

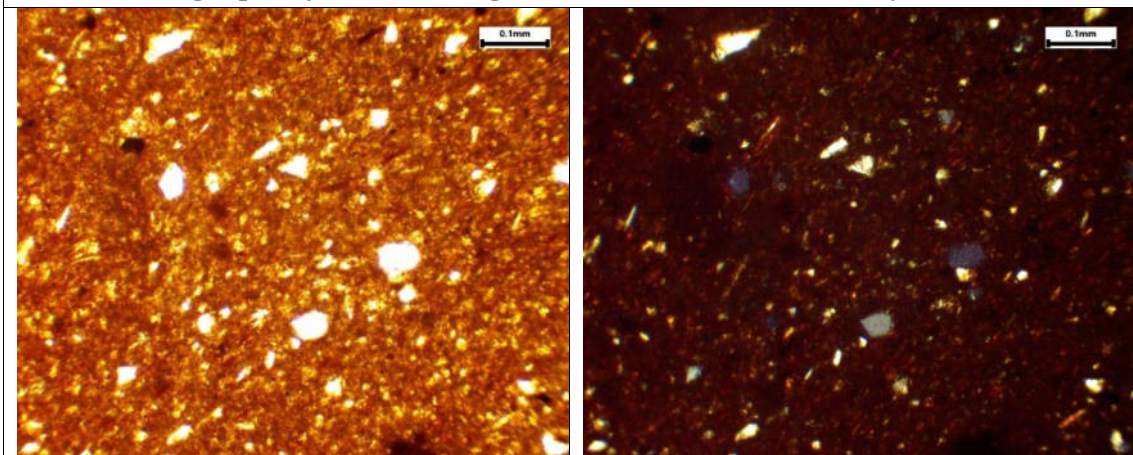
Matrix 75-85%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	dark brown/ red brown	Possibly from the same vessel as CNP6 and CNP8.

Voids 3-5%

Type and size	Distinct characteristics
macro/meso vughs, vesicles	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP8 MFEA Museum Number: K.11199:463 Site: Majiayao	Fabric group: 1; Fine, Mica-Quartz-Feldspar				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body sherd; reduced core, oxidised margins; polished and painted in black; max. wall thickness 4.5 mm. MICROSCOPIC: Non-plastic inclusions 20-30% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 45% • quartz 45% • calcite 5% • feldspar 5% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 45% • quartz 45% • calcite 5% • feldspar 5%
Coarse 0%	Fine 100%				
none	• mica 45% • quartz 45% • calcite 5% • feldspar 5%				

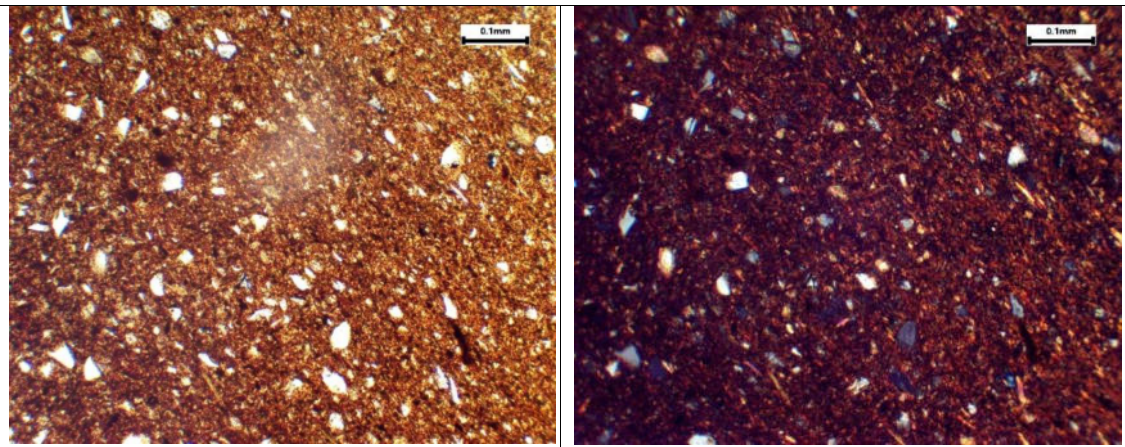
Matrix 65-75%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	dark brown / golden brown	Possibly from the same vessel as CNP6 and CNP7

Voids 5%

Type and size	Distinct characteristics
macro/meso vesicles, vughs	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP9 MFEA Museum Number: K.11998:6 Site: Majiayao	Fabric group: 4B; Coarse, Quartz-Feldspar and Granodiorite fragments - less porous and less inclusion frequency than Fabric group 4A				
Sherd photo 	Fabric photo 				
	Thin section scan 				
Description MACROSCOPIC: Body sherd; fired in oxidising atmosphere; decorated with appliqué and cross-cord impression; max. wall thickness 8 mm. MICROSCOPIC: Non-plastic inclusions 20%					
<table border="0"> <tr> <td style="background-color: #e6f2ff;">Coarse 20%</td><td style="background-color: #e6f2ff;">Fine 80%</td></tr> <tr> <td> - quartz (euhd, eq; ang – s-rnd; CSa-FGr) 37% - plagioclase feldspar (euhd, eq; ang – s-rnd; CSa-FGr) 33% </td><td> - quartz 60% - mica 40 % </td></tr> </table>		Coarse 20%	Fine 80%	- quartz (euhd, eq; ang – s-rnd; CSa-FGr) 37% - plagioclase feldspar (euhd, eq; ang – s-rnd; CSa-FGr) 33%	- quartz 60% - mica 40 %
Coarse 20%	Fine 80%				
- quartz (euhd, eq; ang – s-rnd; CSa-FGr) 37% - plagioclase feldspar (euhd, eq; ang – s-rnd; CSa-FGr) 33%	- quartz 60% - mica 40 %				

- granitic rock fragments – combination of quartz, plagioclase feldspar with/ without biotite and hornblende (eq, el; s-ang; CSa-FGr) 25%
- biotite (lamellae; MSa-CSa) 5%

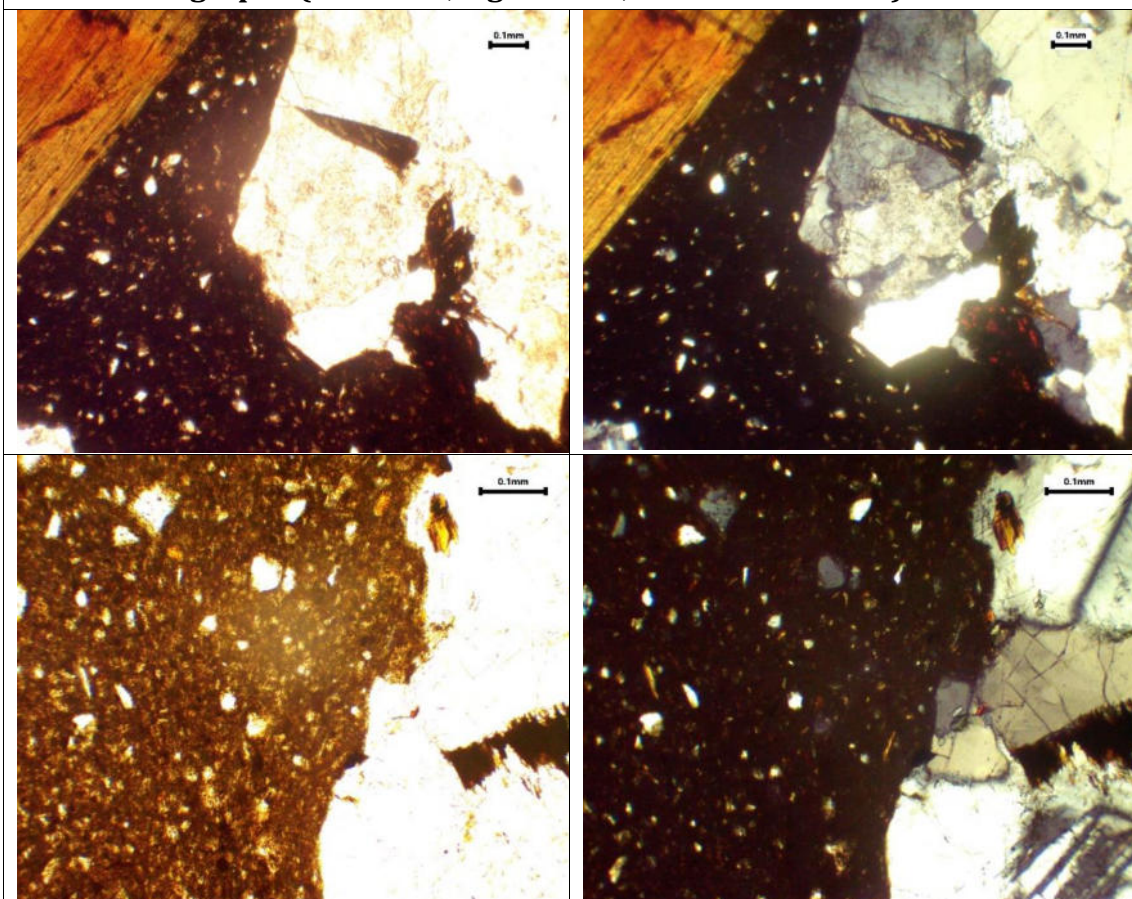
Matrix 77%

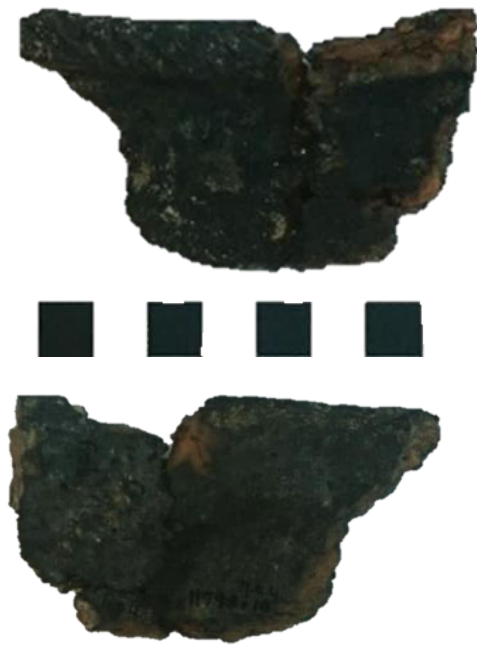
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	moderate	brown/ dark brown	low porosity despite the coarseness Possibly a part of K.11998.19 which is a coarse-fine-combination fabric vessel (not sampled for this study).

Voids 3%

Type and size	Distinct characteristics
macro vesicles, vughs	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP10 MFEA Museum Number: K.11998:10 Site: Majiayao	Fabric group: 6A; Coarse, Quartz and Sedimentary rock fragments				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Rim sherd; oxidised core with thin reduced margins; decorated with diagonal cord impression on the rim and cord impression on the wall (?); max. wall thickness 11 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 20%</th><th>Fine 80%</th></tr> </thead> <tbody> <tr> <td> - quartz (eq; s-rnd; FSa-MSa) 38.5% - sedimentary rock fragments – micaceous sandstone, sandstone in carbonate crystalline cement, and siltstone (el; s-rnd; CSa-FGr) 35% - crystalline calcite (eq, el; s-ang – rnd: FSa-MSa) 24% - plagioclase feldspar (eq; s-ang; FSa) 1% </td><td> - calcite 40% - quartz 30% - mica 30% </td></tr> </tbody> </table>		Coarse 20%	Fine 80%	- quartz (eq; s-rnd; FSa-MSa) 38.5% - sedimentary rock fragments – micaceous sandstone, sandstone in carbonate crystalline cement, and siltstone (el; s-rnd; CSa-FGr) 35% - crystalline calcite (eq, el; s-ang – rnd: FSa-MSa) 24% - plagioclase feldspar (eq; s-ang; FSa) 1%	- calcite 40% - quartz 30% - mica 30%
Coarse 20%	Fine 80%				
- quartz (eq; s-rnd; FSa-MSa) 38.5% - sedimentary rock fragments – micaceous sandstone, sandstone in carbonate crystalline cement, and siltstone (el; s-rnd; CSa-FGr) 35% - crystalline calcite (eq, el; s-ang – rnd: FSa-MSa) 24% - plagioclase feldspar (eq; s-ang; FSa) 1%	- calcite 40% - quartz 30% - mica 30%				

- volcanic rock fragments? angular quartz or feldspar crystals in biotite matrix (eq; ang – s-rnd; CSa) 1%
- pyroxene? (eq; rnd; MSa) 0.5%

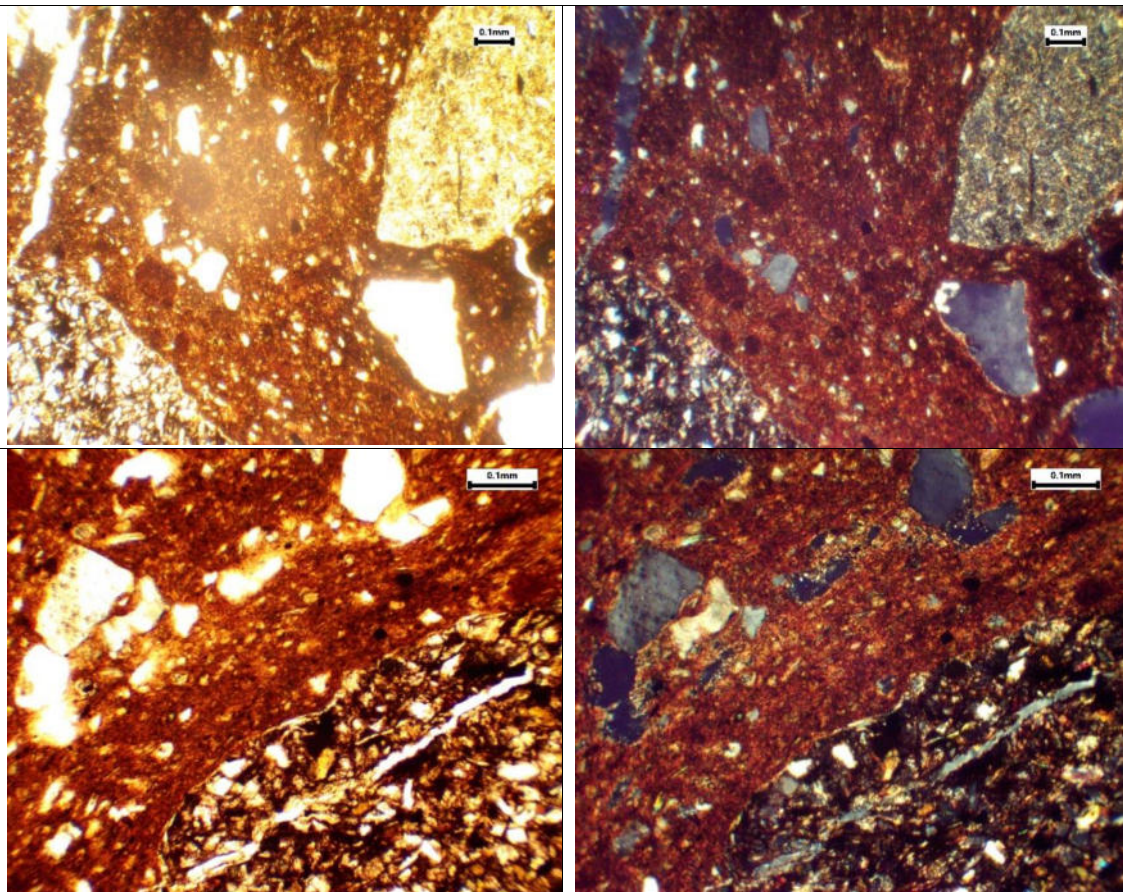
Matrix 70%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	orange brown / golden brown	FSa-CSa clay pellets, >10% of the matrix

Voids 10%

Type and size	Distinct characteristics
mega/macro planar voids, channels; macro vughs	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP11 MFEA Museum Number: K.11998:11 Site: Majiayao	Fabric group: 6A; Coarse, Quartz and Sedimentary rock fragments				
Sherd photo	Fabric photo				
					
	Thin section scan  (damaged slide)				
Description MACROSCOPIC: Rim sherd; oxidised core with thin reduced margins; decorated with appliqué; max. wall thickness 8.7 mm. MICROSCOPIC: Non-plastic inclusions 20-30% <table border="1"> <thead> <tr> <th>Coarse 40-50%</th><th>Fine 50-60%</th></tr> </thead> <tbody> <tr> <td> - quartz (euhd, eq, el; ang – s-rnd; FSa-MSa) 40 % - sedimentary rock fragments – sandstone with opaque and calcareous cement, siltstone (eq; s-rnd; CSa) 35% - volcanic rock fragments – opaque inclusion with acicular mineral inclusions (eq; s-rnd; CSa) 10% </td><td> - calcite 45% - quartz 25% - mica 25% - feldspar 5% </td></tr> </tbody> </table>		Coarse 40-50%	Fine 50-60%	- quartz (euhd, eq, el; ang – s-rnd; FSa-MSa) 40 % - sedimentary rock fragments – sandstone with opaque and calcareous cement, siltstone (eq; s-rnd; CSa) 35% - volcanic rock fragments – opaque inclusion with acicular mineral inclusions (eq; s-rnd; CSa) 10%	- calcite 45% - quartz 25% - mica 25% - feldspar 5%
Coarse 40-50%	Fine 50-60%				
- quartz (euhd, eq, el; ang – s-rnd; FSa-MSa) 40 % - sedimentary rock fragments – sandstone with opaque and calcareous cement, siltstone (eq; s-rnd; CSa) 35% - volcanic rock fragments – opaque inclusion with acicular mineral inclusions (eq; s-rnd; CSa) 10%	- calcite 45% - quartz 25% - mica 25% - feldspar 5%				

- metamorphic rock fragments – intergrown quartz and feldspar crystals (eq; s-rnd; CSa) 10%
- plagioclase feldspar (eq; s-rnd; FSa-MSa) 5%

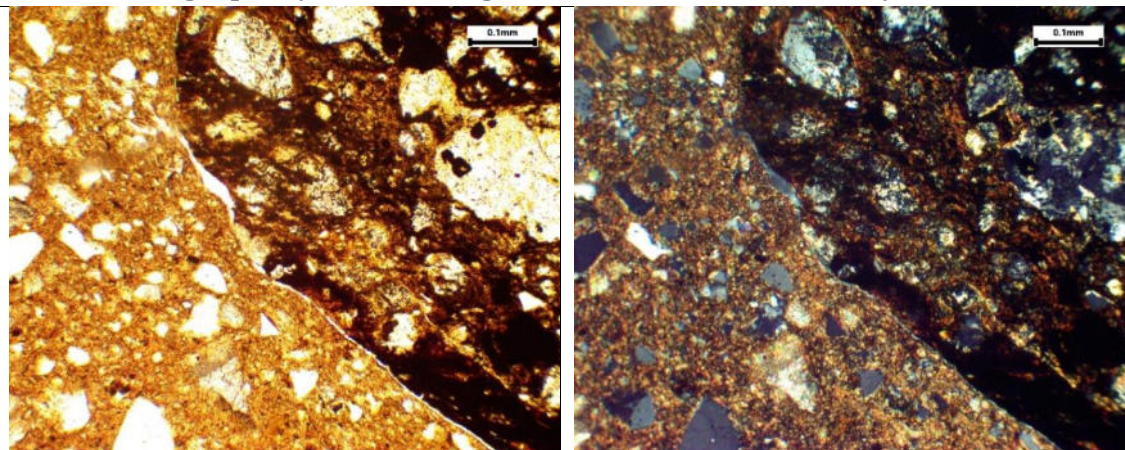
Matrix 65-75%

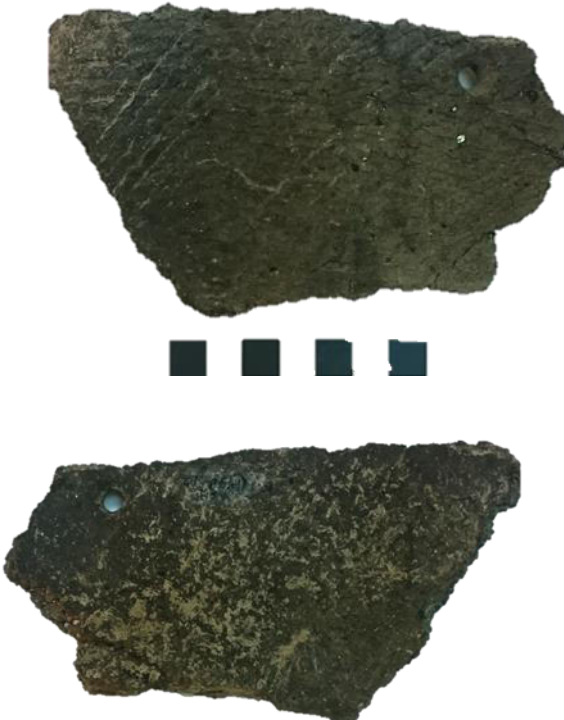
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	orange brown / golden brown	none

Voids 3-5%

Type and size	Distinct characteristics
mega/macro planar voids	voids appear to be aligned parallel to the long edge

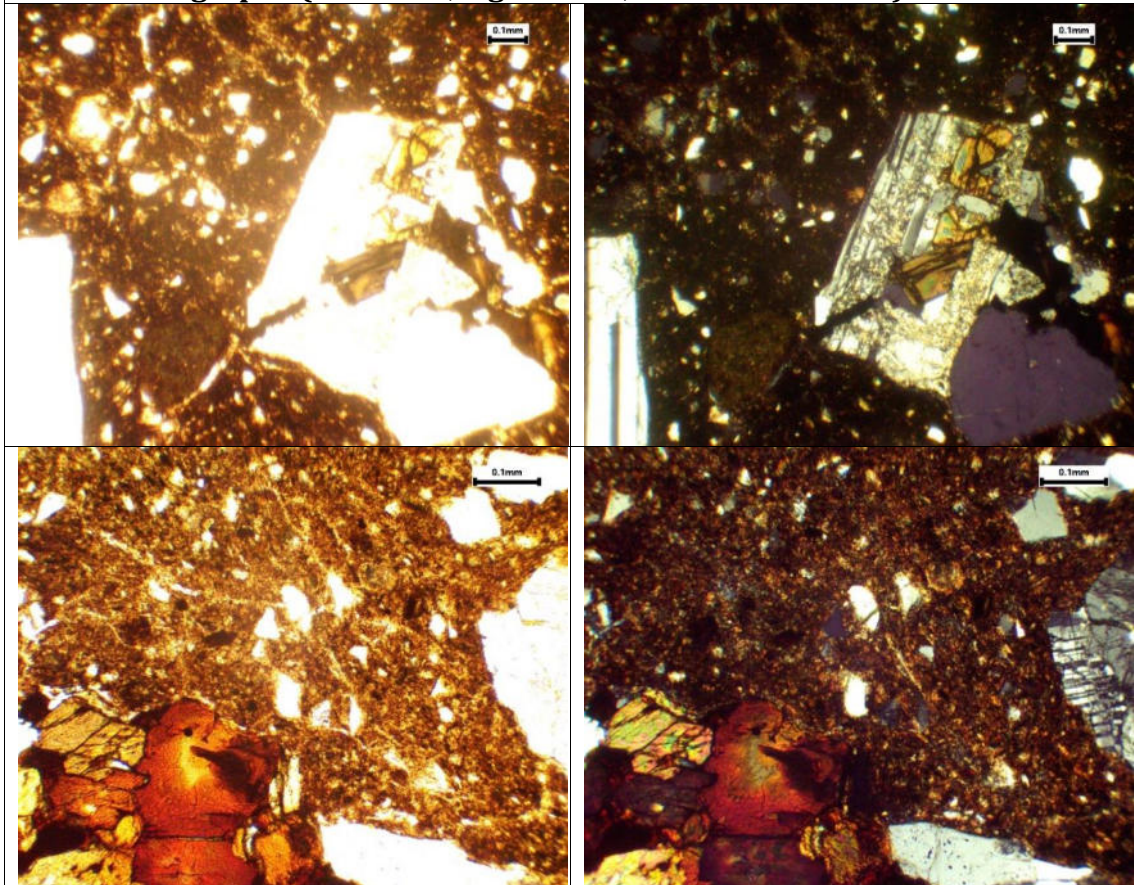
Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP12 MFEA Museum Number: K.11998:12 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body sherd; fired in reducing atmosphere; decorated with cross-cord impression; max. wall thickness 12 mm. MICROSCOPIC: Non-plastic inclusions 40% <table border="1"> <thead> <tr> <th>Coarse 45%</th><th>Fine 55%</th></tr> </thead> <tbody> <tr> <td> - quartz (eq; ang; CSa) 34% - plagioclase feldspar (eq; ang; CSa) 30% - granitic/ metamorphic rock fragments – combination of quartz, plagioclase feldspar, biotite, hornblende, clinopyroxene? (eq; s-ang; CSa) 30% - micritic/ crystalline calcite (eq; rnd; MSa-CSa) 5% - biotite (lamellae; CSa) 1% </td><td> - quartz 60% - mica 30% - feldspar 10% - micritic calcite? </td></tr> </tbody> </table>		Coarse 45%	Fine 55%	- quartz (eq; ang; CSa) 34% - plagioclase feldspar (eq; ang; CSa) 30% - granitic/ metamorphic rock fragments – combination of quartz, plagioclase feldspar, biotite, hornblende, clinopyroxene? (eq; s-ang; CSa) 30% - micritic/ crystalline calcite (eq; rnd; MSa-CSa) 5% - biotite (lamellae; CSa) 1%	- quartz 60% - mica 30% - feldspar 10% - micritic calcite?
Coarse 45%	Fine 55%				
- quartz (eq; ang; CSa) 34% - plagioclase feldspar (eq; ang; CSa) 30% - granitic/ metamorphic rock fragments – combination of quartz, plagioclase feldspar, biotite, hornblende, clinopyroxene? (eq; s-ang; CSa) 30% - micritic/ crystalline calcite (eq; rnd; MSa-CSa) 5% - biotite (lamellae; CSa) 1%	- quartz 60% - mica 30% - feldspar 10% - micritic calcite?				

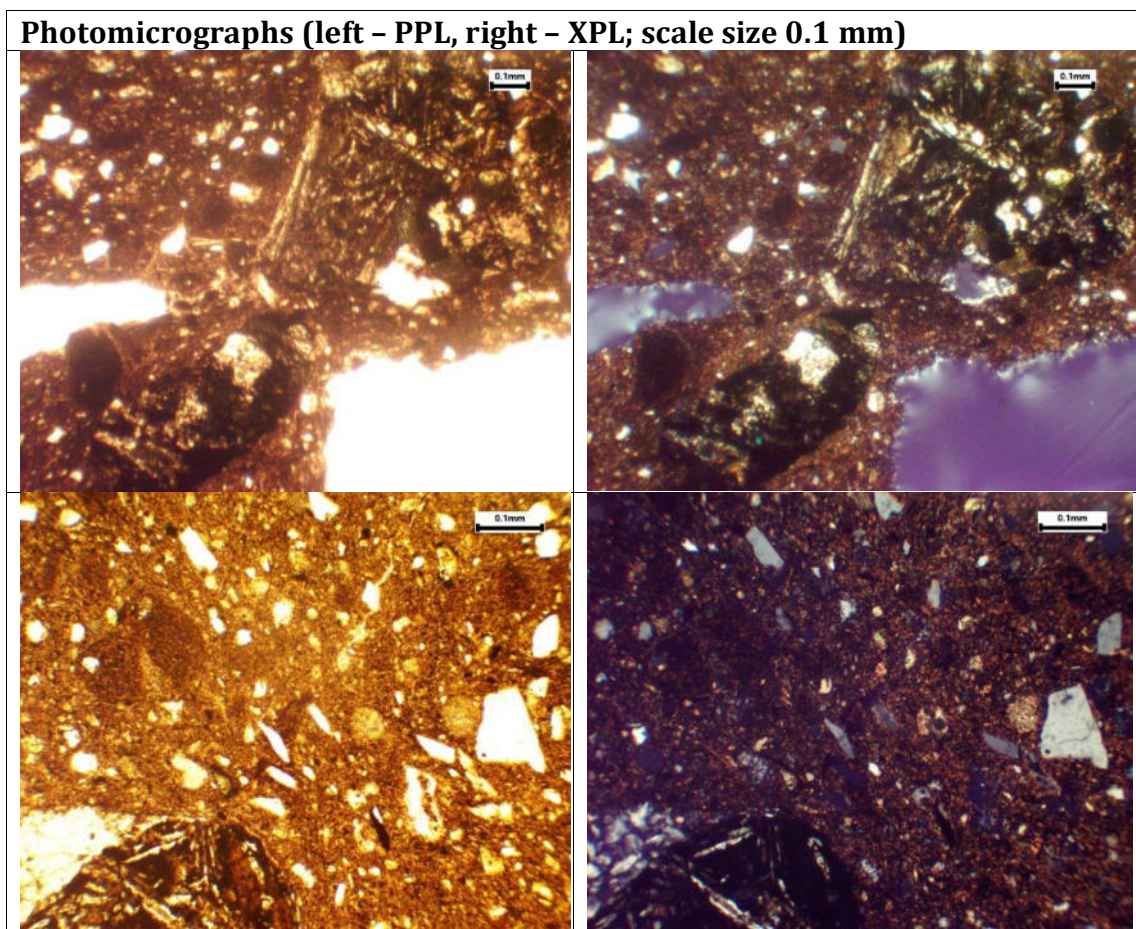
Matrix 40-50%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	brown / dark brown	very coarse but most voids are not around coarse inclusions
Voids 5-10%				
Type and size			Distinct characteristics	
macro vesicles, vughs, channels			none	

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP13 MFEA Museum Number: K.11998:15 Site: Majiayao	Fabric group: 6B; Coarse, Quartz and Sedimentary rock fragments with Volcanic rock fraction				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Rim sherd; fired in reducing atmosphere; decorated with cross-cord and finger (?) impression; max. wall thickness 11 mm. MICROSCOPIC: Non-plastic inclusions 30% <table border="1"> <thead> <tr> <th>Coarse 40%</th> <th>Fine 60%</th> </tr> </thead> <tbody> <tr> <td> - quartz (euhd, eq, el; ang – s-rnd; FSa-FGr) 30% - sedimentary rock fragments – sandstone (el; s-rnd; CSa), siltstone (el; s-rnd; CSa) 30% - volcanic rock fragments – elongated quartz, feldspar and olivine (?) with/ without calcite in black opaque matrix (eq s-rnd CSa-FGr) 25% - metamorphic rock with quartz, feldspar, mica and clinopyroxene (eq; rnd; CSa) 10% - chert (eq; ang; CSa) 4% - plagioclase and microcline feldspar (eq; s-rnd; MSa) 1% </td> <td> - calcite 40% - quartz 30% - mica 20% - feldspar 10% </td> </tr> </tbody> </table>		Coarse 40%	Fine 60%	- quartz (euhd, eq, el; ang – s-rnd; FSa-FGr) 30% - sedimentary rock fragments – sandstone (el; s-rnd; CSa), siltstone (el; s-rnd; CSa) 30% - volcanic rock fragments – elongated quartz, feldspar and olivine (?) with/ without calcite in black opaque matrix (eq s-rnd CSa-FGr) 25% - metamorphic rock with quartz, feldspar, mica and clinopyroxene (eq; rnd; CSa) 10% - chert (eq; ang; CSa) 4% - plagioclase and microcline feldspar (eq; s-rnd; MSa) 1%	- calcite 40% - quartz 30% - mica 20% - feldspar 10%
Coarse 40%	Fine 60%				
- quartz (euhd, eq, el; ang – s-rnd; FSa-FGr) 30% - sedimentary rock fragments – sandstone (el; s-rnd; CSa), siltstone (el; s-rnd; CSa) 30% - volcanic rock fragments – elongated quartz, feldspar and olivine (?) with/ without calcite in black opaque matrix (eq s-rnd CSa-FGr) 25% - metamorphic rock with quartz, feldspar, mica and clinopyroxene (eq; rnd; CSa) 10% - chert (eq; ang; CSa) 4% - plagioclase and microcline feldspar (eq; s-rnd; MSa) 1%	- calcite 40% - quartz 30% - mica 20% - feldspar 10%				

Matrix 60%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	brown / golden brown	FSa-CSa clay pellets, 5-10% of the matrix
Voids 10%				
Type and size	Distinct characteristics			
mega/macro channels	Elongated voids at the coil join areas			



Sample code: CNP14 MFEA Museum Number: K.11998:20 Site: Majiayao	Fabric group: 5A; Coarse, Calcite and Quartz with Sedimentary rock fragments
Sherd photo	Fabric photo
	
	Thin section scan 

Description

MACROSCOPIC:

Rim sherd; fired in reducing atmosphere; decorated with horizontal cord-impression; max. wall thickness 14 mm.

MICROSCOPIC:

Non-plastic inclusions 50%

Coarse 35%

- crystalline and micritic calcite (one inclusion with relic shapes of nannofossils) (eq, el; ang – s-rnd; FSa-FGr) 40%
- quartz (eq, el; s-ang – s-rnd; FSa-MSa) 30%
- plagioclase/ microcline feldspar (eq; s-rnd; FSa-MSa) 20%
- sandstone – quartz, feldspar, chert, and olivine/ pyroxene? in carbonate and/ or opaque matrix (eq; s-ang – s-rnd; MSa-CSa) 5%
- siltstone (eq, el; ang – s-rnd; MSa-FGr) 4.8%

Fine 65%

- calcite 40%
- mica 30%
- quartz 20%
- feldspar 10%

- volcanic rock fragment? acicular quartz and feldspar in black opaque matrix (eq; rnd; MSa) 0.1%
- quartz-mica schist (eq; rnd; CSa) 0.1%

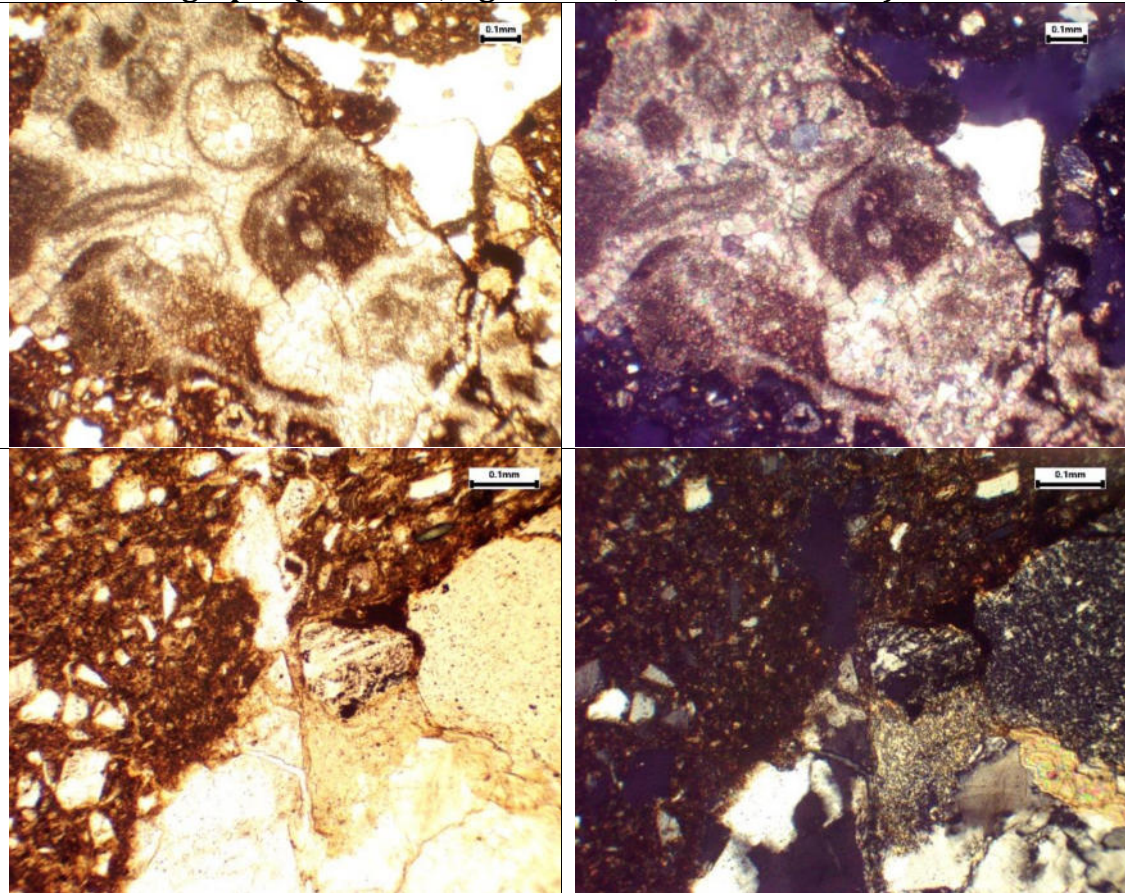
Matrix 60-65%

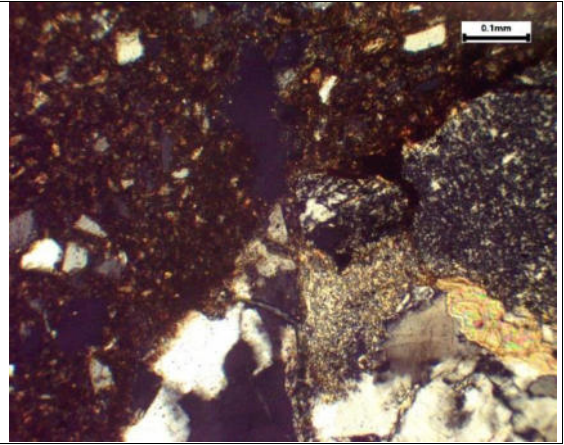
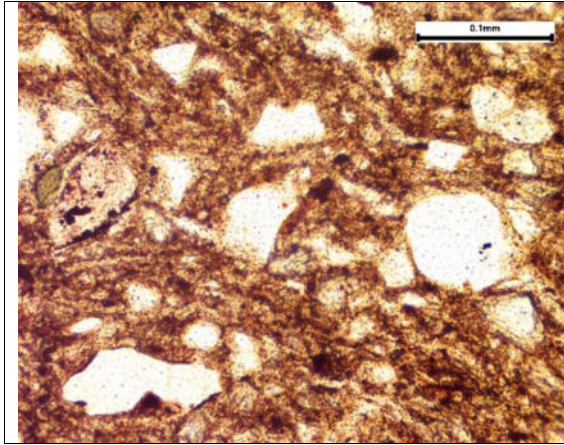
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	light brown / dark grey	none

Voids 5-10%

Type and size	Distinct characteristics
macro/meso channels, vughs, planar voids	none

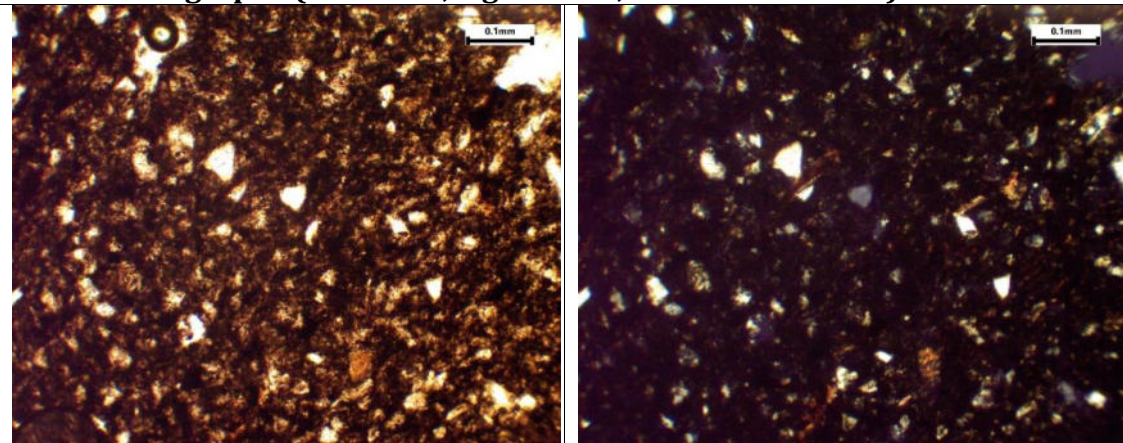
Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)





Sample code: CNP15 MFEA Museum Number: K.11998:24 Site: Majiayao	Fabric group: 3; Fine, Quartz dominant			
Sherd photo	Fabric photo			
				
	Thin section scan			
				
Description				
MACROSCOPIC: Rim and neck sherd; fired in reducing atmosphere; decorated with impressions; max. wall thickness 6 mm.				
MICROSCOPIC: Non-plastic inclusions 30%				
Coarse 0%		Fine 100%		
none		- quartz 60% - mica 35% - feldspar 5%		
Matrix 67%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	dark grey/ dark grey to black	same groundmass in coarse CNP31?
Voids 1-3%				
Type and size		Distinct characteristics		
macro/meso vesicles		secondary calcite in voids		

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP16 MFEA Museum Number: K.11998:28 Site: Majiayao	Fabric group: 4E; Coarse-fine combination fabric: coarse Granodiorite fragments with Quartz and Feldspar
Sherd photo	Fabric photo
	
	Thin section scan 
Description MACROSCOPIC: Body sherd; fired in oxidising atmosphere; upper half is polished and painted black, lower half has cross-cord impression and appliqué; max. wall thickness 9 mm. MICROSCOPIC: Non-plastic inclusions 25-30% of the entire sherd	
Coarse fabric 30% inclusions	Fine fabric 25% inclusions
Coarse 40%:	Coarse 0%
	Fine 100%:

- granitic rock fragments – combination of quartz, feldspar, biotite, hornblende (eq, el; ang – s-rnd; MSa-CSa) 38%
- quartz (eq, el; ang – rnd; FSa-CSa) 25%
- plagioclase feldspar (eq; s-ang; MSa-CSa) 20%
- biotite (lamellae; MSa-CSa) 15%
- micrite (eq & el s-rnd FSa-CSa) 1%
- siltstone/sandstone? (eq, el; rnd; MSa-CSa) 1%
- mica 50%
- quartz 40%
- feldspar 10%

Fine 60%:

- mica 50%
- quartz 40%
- feldspar 10%

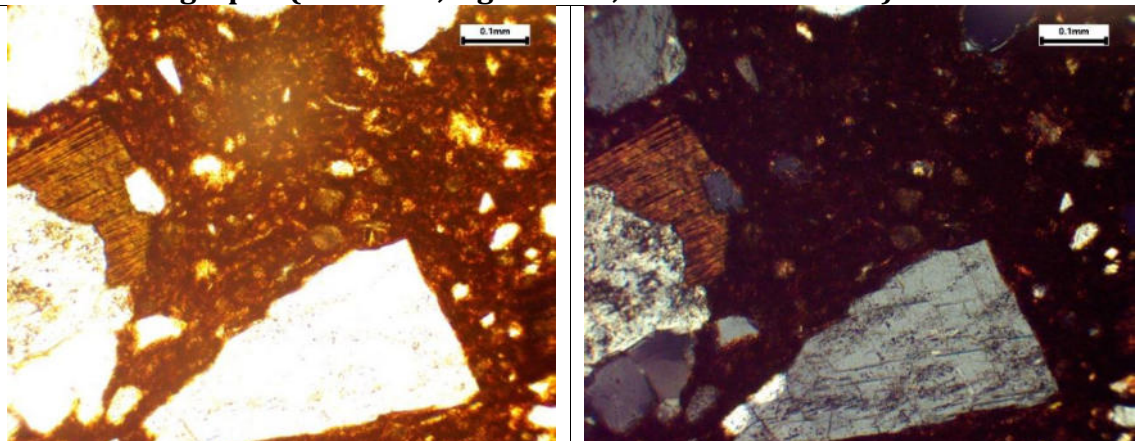
Matrix 67-70%

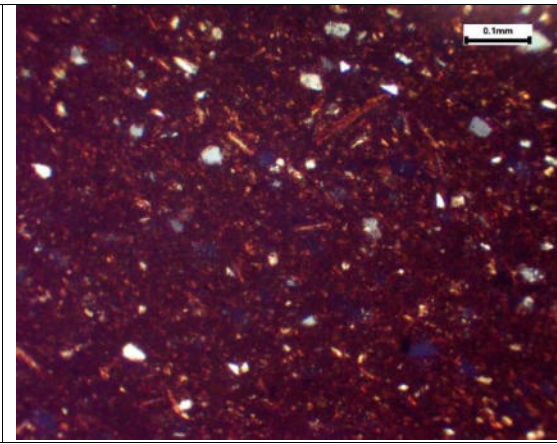
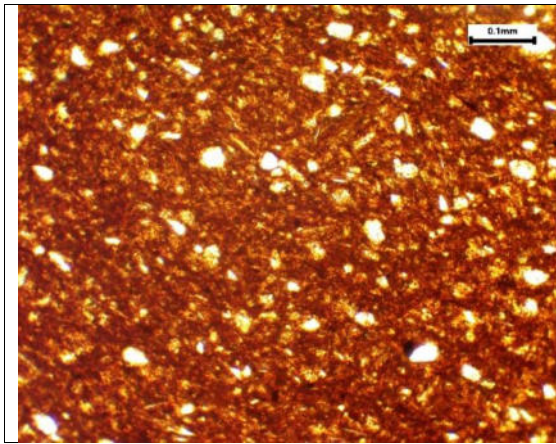
Homo-/heterogeneity (both fabrics)	Sorting (both fabrics)	Optical activity (both fabrics)	Colour in PPL/ in XPL (both fabrics)	Textural features/ comments
homogeneous	coarse: poor fine: well	moderate?	dark brown/ dark reddish brown	no voids or cracks between the joining section of the two fabrics; coarse and fine fabrics have the same groundmass; low porosity in both fabrics; natural or secondary calcite?

Voids 3-5%

Type and size (both fabrics)	Distinct characteristics
macro/ meso vughs, vesicles	fine fabric is less porous

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)





Sample code: CNP17 MFEA Museum Number: K11998:29 Site: Majiayao	Fabric group: 1; Fine, Mica-Quartz - Feldspar				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description MACROSCOPIC: Body sherd; oxidised core, reduced margins (weak reduction?); decorated with cross-cord impression; max. wall thickness 6.3 mm. MICROSCOPIC: Non-plastic inclusions 20%					
<table> <thead> <tr> <th>Coarse 5%</th><th>Fine 95%</th></tr> </thead> <tbody> <tr> <td> - siltstone (?) (eq; ang – rnd; MSa-CSa) 80% - quartz (eq; el; s-rnd FSa) 10% </td><td> - mica 45% - quartz 35% - micritic calcite 20% </td></tr> </tbody> </table>		Coarse 5%	Fine 95%	- siltstone (?) (eq; ang – rnd; MSa-CSa) 80% - quartz (eq; el; s-rnd FSa) 10%	- mica 45% - quartz 35% - micritic calcite 20%
Coarse 5%	Fine 95%				
- siltstone (?) (eq; ang – rnd; MSa-CSa) 80% - quartz (eq; el; s-rnd FSa) 10%	- mica 45% - quartz 35% - micritic calcite 20%				

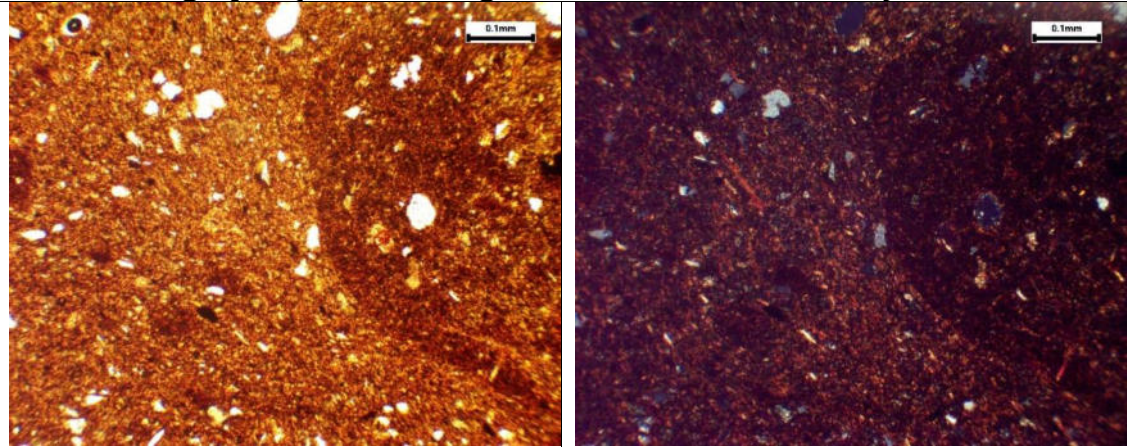
Matrix 75%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	active	dark brown / golden brown	FSa-CSa clay pellets 3-5% of the matrix; secondary calcite?

Voids 5%

Type and size	Distinct characteristics
meso vughs, vesicles	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP18 MFEA Museum Number: K.11998:39 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments
Sherd photo 	Fabric photo  Thin section scan 
Description MACROSCOPIC: Body and base sherd; first oxidised and then reduced, the inside wall of the vessel is not completely reduced; decorated with cross-cord impression and appliqué with vertical cord impression; max. wall thickness 7.3 mm.	

MICROSCOPIC:

Non-plastic inclusions 40-50%

Coarse 40%

- quartz (euhd, eq, el; ang; FSa-FGr) 35%
- plagioclase/ microcline feldspar (euhd, eq, el; ang; FSa-CSa) 35%
- micritic calcite (eq; rnd; FSa-MSa) 23%
- biotite (lamellae; MSa-CSa) 5 %
- hornblende (eq; ang; MSa) 1%
- granitic rock fragments – quartz, plagioclase feldspar, biotite, hornblende (eq; ang; MSa) 1%

Fine 60%

- micritic calcite 50%
- quartz 40 %
- mica 10 %

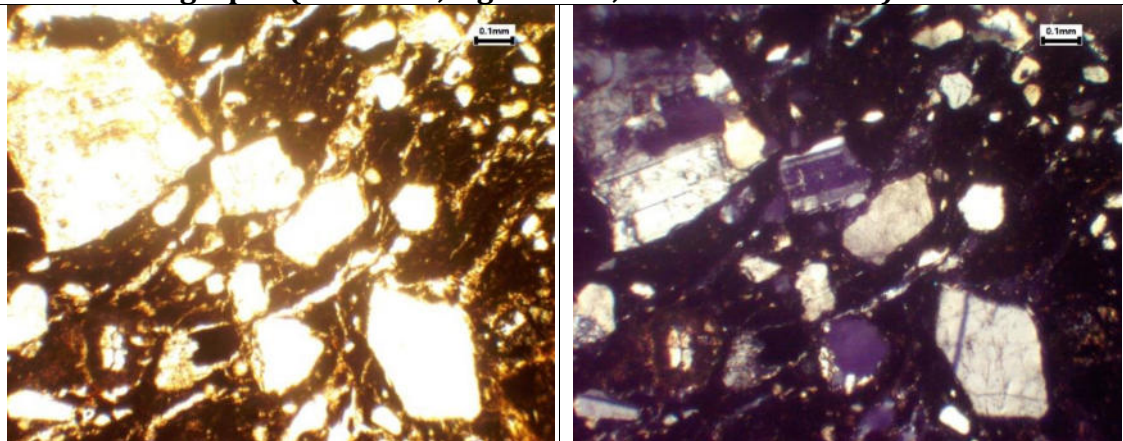
Matrix 35-45%

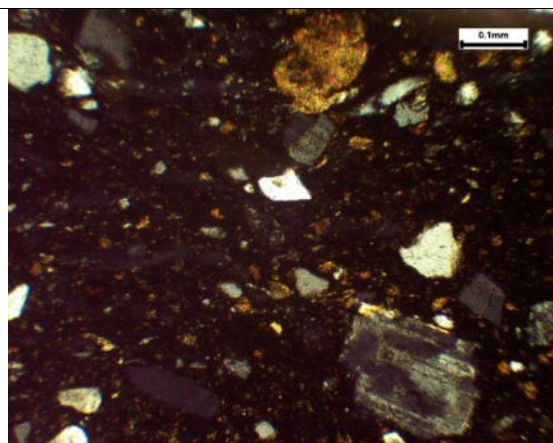
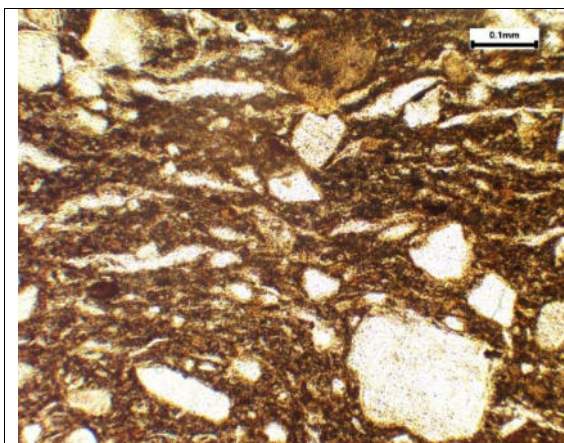
Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	moderate	dark grey and dark brown/ dark brown and brown	none

Voids 15%

Type and size	Distinct characteristics
macro vughs; network of thin planar voids all over the sample	very few large voids, mostly thin planar voids

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)





Sample code: CNP19 MFEA Museum Number: K.11998:44 Site: Majiayao	Fabric group: 5A; Coarse, Calcite and Quartz with Sedimentary rock fragments
Sherd photo	Fabric photo
	
	Thin section scan 
Description	
MACROSCOPIC: Rim sherd; reduced, oxidised, reduced; decorated with diagonal cord impression on the rim, cross-cord impression on the body; max. wall thickness 11 mm, rim 21 mm.	
MICROSCOPIC: Non-plastic inclusions 30-40%	
Coarse 30% - quartz (euhd, eq, el; ang – s-rnd; FSa-FGr) 30% - sandstone in calcareous and opaque matrix (eq; s-rnd; CSa) 25% - crystalline and micritic calcite (eq; ang; FSa-CSa) 15% - siltstone (eq, el; s-rnd; CSa) 15% - granitic rock fragments – combination of quartz and plagioclase feldspar (eq; s-rnd; MSa) 5% - volcanic rock fragments? – needle-shaped feldspar in black opaque matrix or clay	Fine 70% - calcite 40% - quartz 30% - mica 20% - feldspar 10%

optically active matrix (with olivine?) (eq; rnd;
FGr) 5%

- plagioclase feldspar (eq; ang – s-ang; MSa) 5%

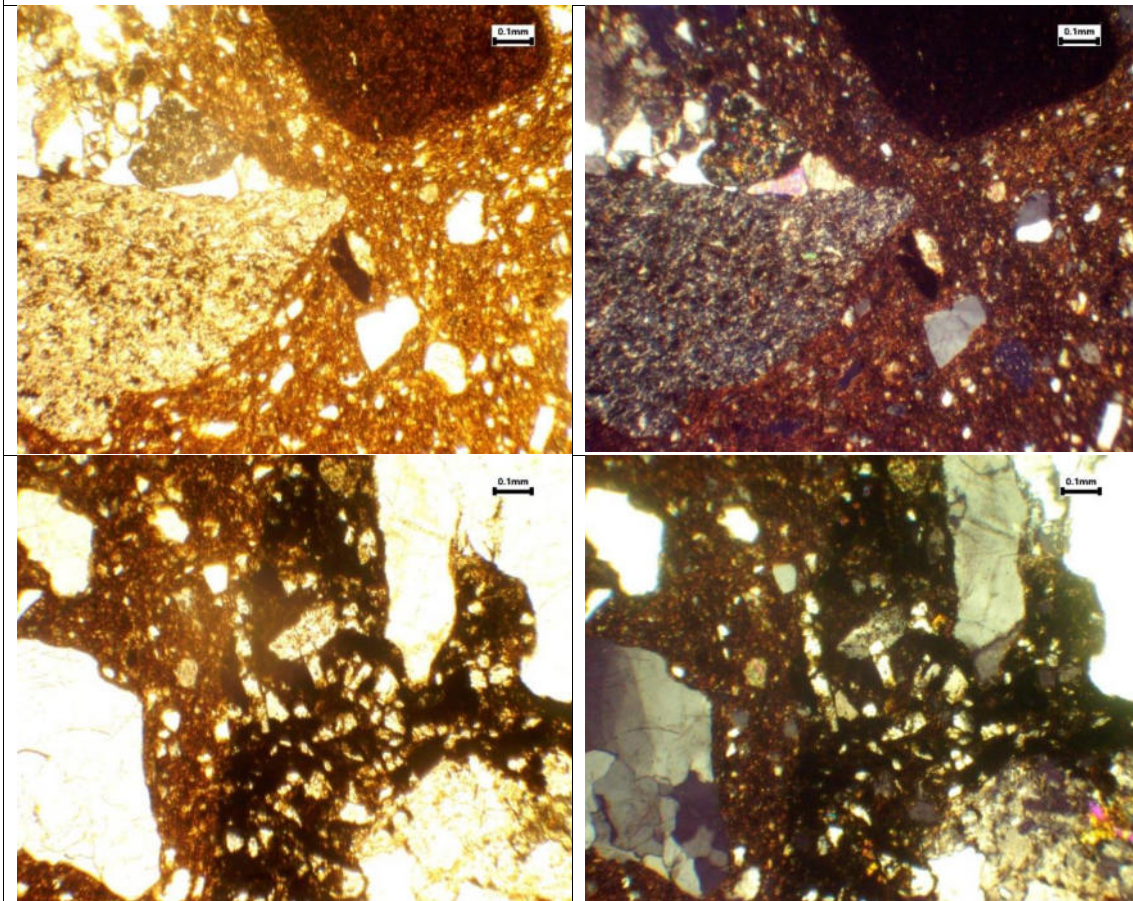
Matrix 50-60%

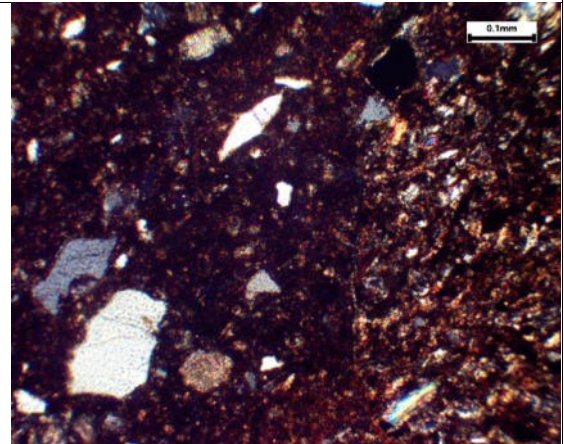
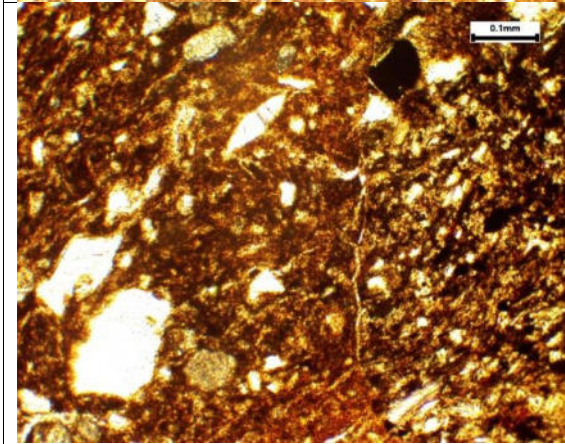
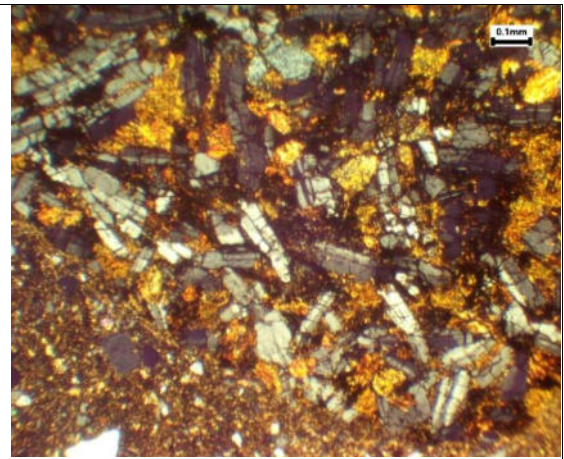
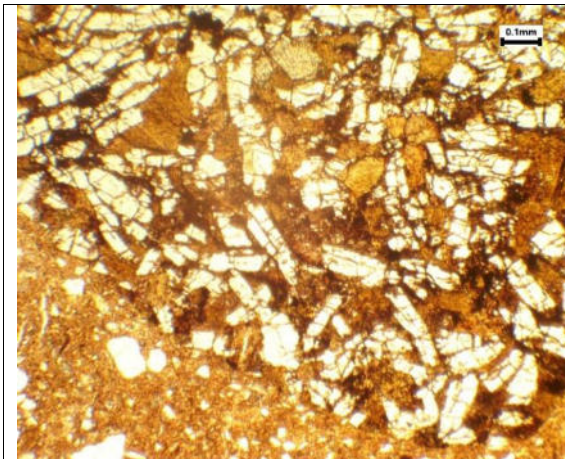
Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	brown / golden brown	none

Voids 10%

Type and size	Distinct characteristics
mega/macro vughs, channels	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)





Sample code: CNP20 MFEA Museum Number: K.11998:49 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments
Sherd photo 	Fabric photo  Thin section scan 
Description MACROSCOPIC: Rim sherd; fired in reducing atmosphere; decorated with diagonal cross-cord impression; max. wall thickness 11 mm. MICROSCOPIC: Non-plastic inclusions 40-50%	
Coarse 30% - quartz (euhd, eq, el; ang – s-rnd; FSa-FGr) 44% - plagioclase feldspar (euhd, eq, el; ang – s-rnd FSa-FGr) 44% - crystalline and micritic calcite (eq ang – s-ang FSa-CSa) 5% - biotite (laths, MSa-CSa) 5% - granitic rock fragments – combination of quartz, plagioclase feldspar, biotite, hornblende (eq; s-ang; CSa-FGr) 1% - sedimentary rock fragments (el; rnd; CSa) 1%	Fine 70% - quartz 35% - feldspar 30% - micrite 25% - mica 9.5% - hornblende 0.5%

- haematite? (one black opaque rounded FGr inclusion)

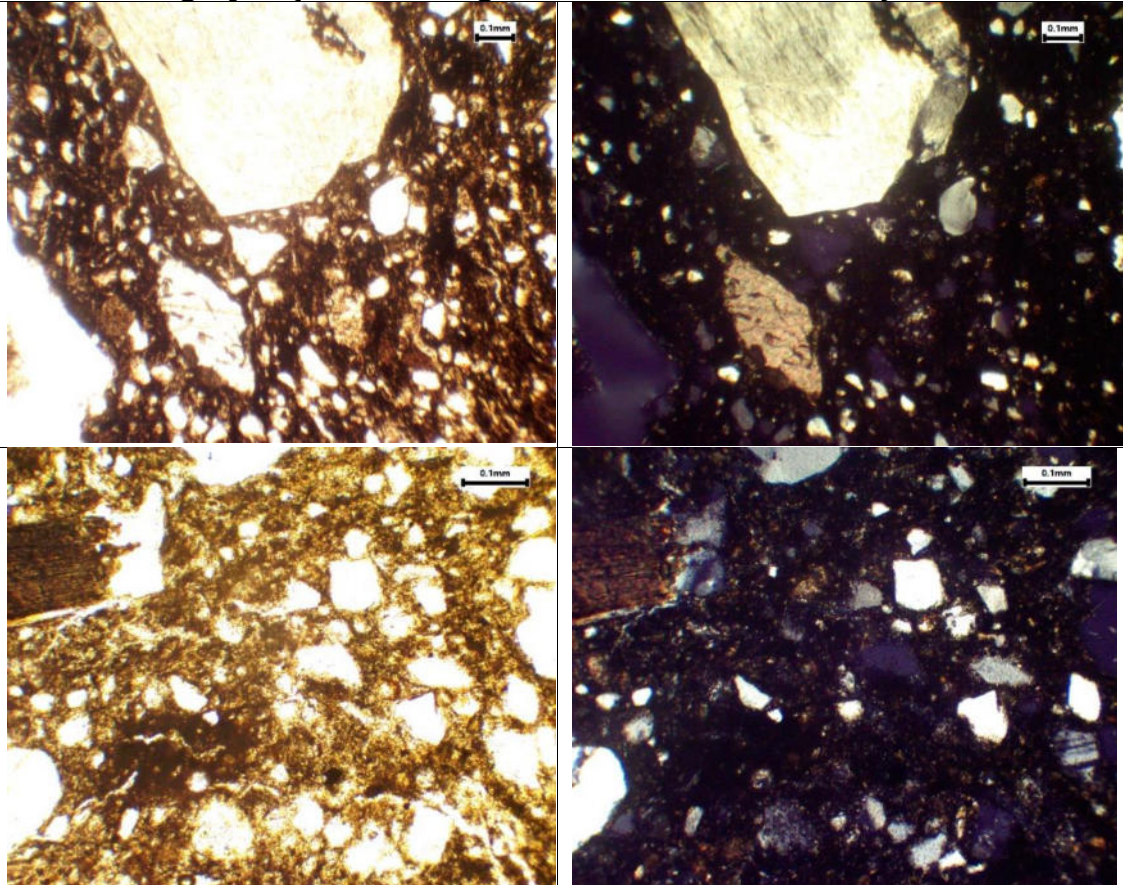
Matrix 50%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	light greyish brown / dark grey to black	very few voids for such a coarse fabric

Voids 3-5%

Type and size	Distinct characteristics
macro vughs	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP21 MFEA Museum Number: K.11998:50 Site: Majiayao	Fabric group: 5A; Coarse, Calcite and Quartz with Sedimentary rock fragments
Sherd photo	Fabric photo
	
	Thin section scan
	

Description

MACROSCOPIC:

Rim sherd with handle; oxidised core and reduced margins; decorated with finger (?) impressions and appliqué on the handle; max. wall thickness 6.7 mm, rim 10.6 mm.

MICROSCOPIC:

Non-plastic inclusions 40-50%

Coarse 30%

- quartz (euhd, eq, el; ang – s-rnd; FSa-CSa) 35%
- crystalline and micritic calcite (eq; s-ang – rnd; FSa-CSa) 30%
- plagioclase/ microcline feldspar (eq, el; s-ang; FSa-CSa) 15%
- sandstone in carbonate or opaque cement (with olivine?) (eq; ang; CSa-FGr) type 10%

Fine 70%

- micritic calcite 35%
- quartz 30%
- mica 20%
- feldspar 15%

- granitic rock fragments – combination of quartz, plagioclase or microcline feldspar with/ without muscovite (eq; s-rnd; MSa) 5%
- siltstone (eq, el; s-rnd; MSa) 4%
- volcanic rock fragments (eq, el; rnd; CSa) 1%

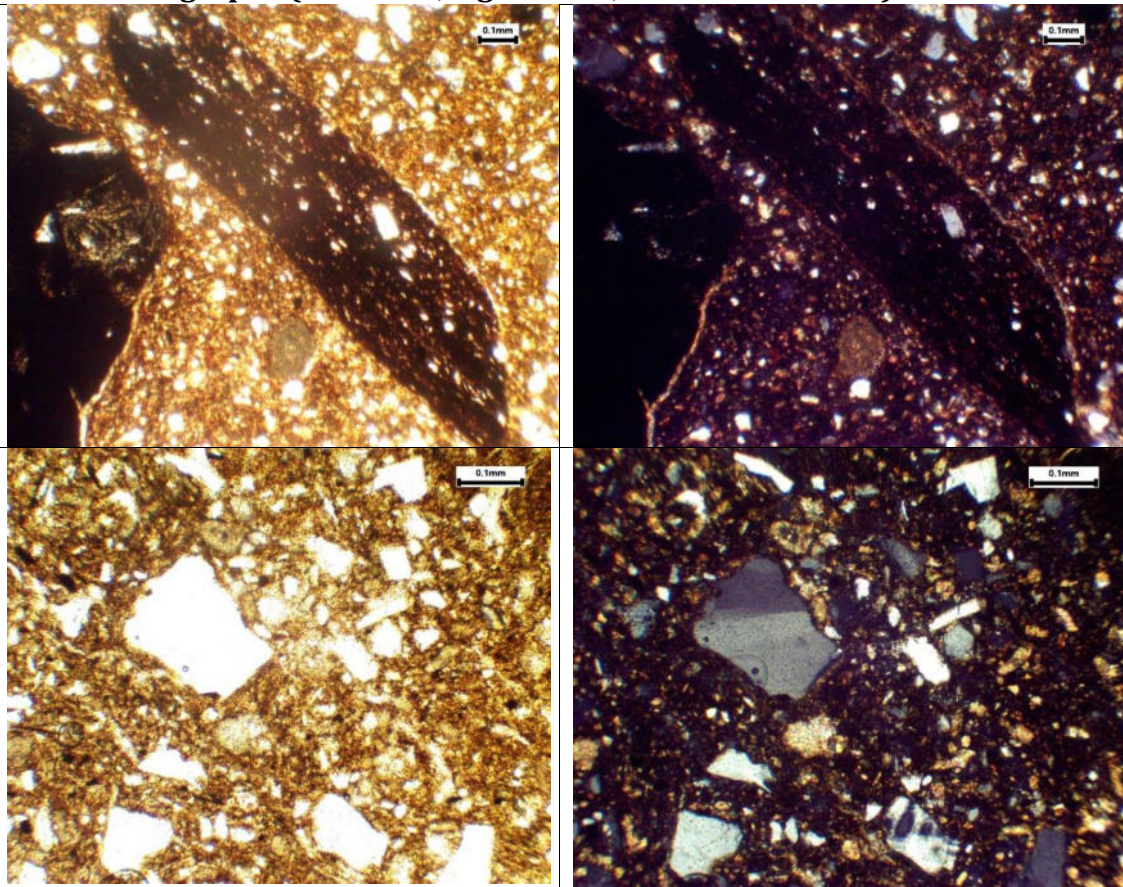
Matrix 50-55%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	light brown/ golden brown	none

Voids 5-10%

Type and size	Distinct characteristics
macro/meso vughs, vesicles, planar voids	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP22 MFEA Museum Number: K.11998:54 Site: Majiayao	Fabric group: 5A; Coarse, Calcite and Quartz with Sedimentary rock fragments				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body sherd; fired in reducing atmosphere; decorated with cross-cord impression; max. wall thickness 7.5 mm. MICROSCOPIC: Non-plastic inclusions 30-40% <table border="1"> <thead> <tr> <th>Coarse 40%</th> <th>Fine 60%</th> </tr> </thead> <tbody> <tr> <td> - quartz (euhd, eq, el; ang – s-rnd; FSa-CSa) 35% </td> <td> - micritic calcite 40% - quartz 30% - mica 25% - feldspar 5% </td> </tr> </tbody> </table>		Coarse 40%	Fine 60%	quartz (euhd, eq, el; ang – s-rnd; FSa-CSa) 35%	- micritic calcite 40% - quartz 30% - mica 25% - feldspar 5%
Coarse 40%	Fine 60%				
quartz (euhd, eq, el; ang – s-rnd; FSa-CSa) 35%	- micritic calcite 40% - quartz 30% - mica 25% - feldspar 5%				

- micritic and crystalline calcite (mostly in micritic inclusions, euhd, eq; ang; FSa-MSa) 25%
- metamorphosed quartz and feldspar-sericite in black opaque matrix (eq; s-ang – s-rnd CSa-FGr) 19%
- plagioclase feldspar (eq; ang; FSa-MSa) 15%
- calcite vein in chert (eq, el; s-rnd; CSa-FGr) 5%
- chert (eq; rnd; MSa) 0.5%
- siltstone (eq; rnd; MSa) 0.5%

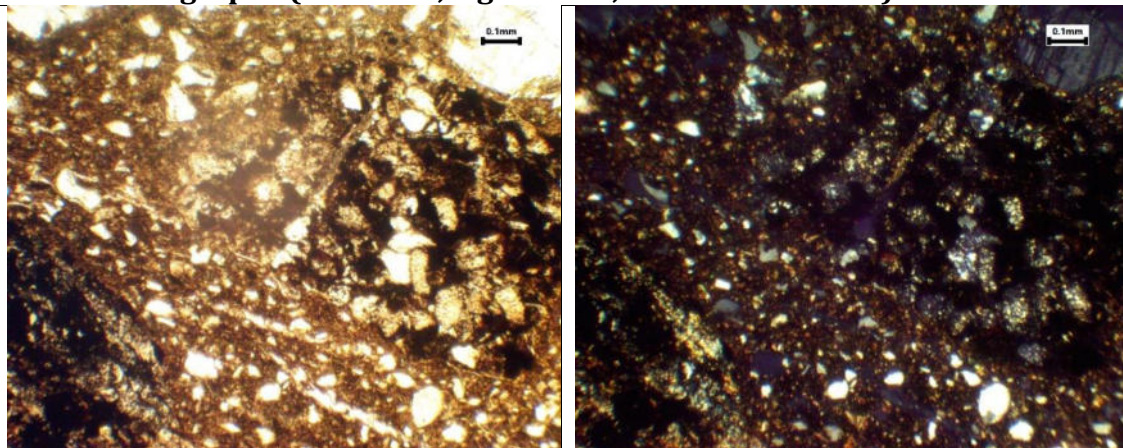
Matrix 57-67%

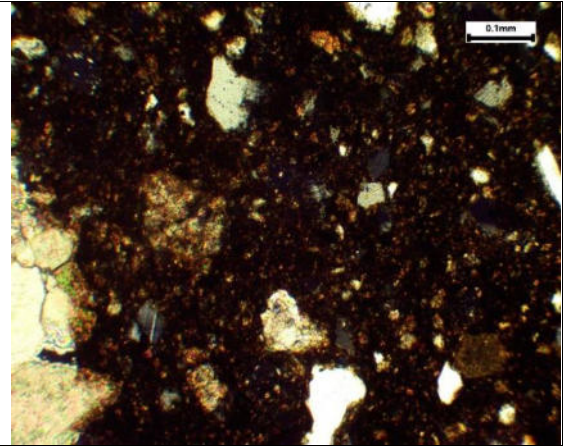
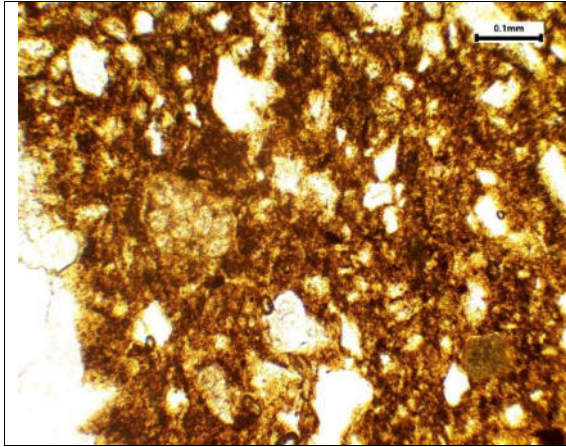
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	active	brown / golden brown	none

Voids 3%

Type and size	Distinct characteristics
macro/meso vughs, channels, vesicles	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)





Sample code: CNP23 MFEA Museum Number: K.11998:56 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC:					
Body sherd; reduced exterior, interior core half oxidised, reduced margins; decorated with cross-cord impression and appliqué with vertical cord impressions; max. wall thickness 9 mm.					
MICROSCOPIC:					
Non-plastic inclusions 30%					
<table> <tr> <th>Coarse 45%</th><th>Fine 55%</th></tr> <tr> <td> - plagioclase/ microcline feldspar (euhd, eq; s-ang; CSa-FGr) 53.5% - quartz (eq; s-rnd; CSa) 40% - biotite (lamellae; MSa-CSa) 5% - granitic rock fragments – combination of quartz, feldspar, biotite, hornblende (eq, el; ang; CSa) 1% - hornblende (eq; s-ang; FSa-MSa) 0.5% </td><td> - quartz 50% - micritic calcite? 45% - feldspar 5% </td></tr> </table>	Coarse 45%	Fine 55%	- plagioclase/ microcline feldspar (euhd, eq; s-ang; CSa-FGr) 53.5% - quartz (eq; s-rnd; CSa) 40% - biotite (lamellae; MSa-CSa) 5% - granitic rock fragments – combination of quartz, feldspar, biotite, hornblende (eq, el; ang; CSa) 1% - hornblende (eq; s-ang; FSa-MSa) 0.5%	- quartz 50% - micritic calcite? 45% - feldspar 5%	
Coarse 45%	Fine 55%				
- plagioclase/ microcline feldspar (euhd, eq; s-ang; CSa-FGr) 53.5% - quartz (eq; s-rnd; CSa) 40% - biotite (lamellae; MSa-CSa) 5% - granitic rock fragments – combination of quartz, feldspar, biotite, hornblende (eq, el; ang; CSa) 1% - hornblende (eq; s-ang; FSa-MSa) 0.5%	- quartz 50% - micritic calcite? 45% - feldspar 5%				

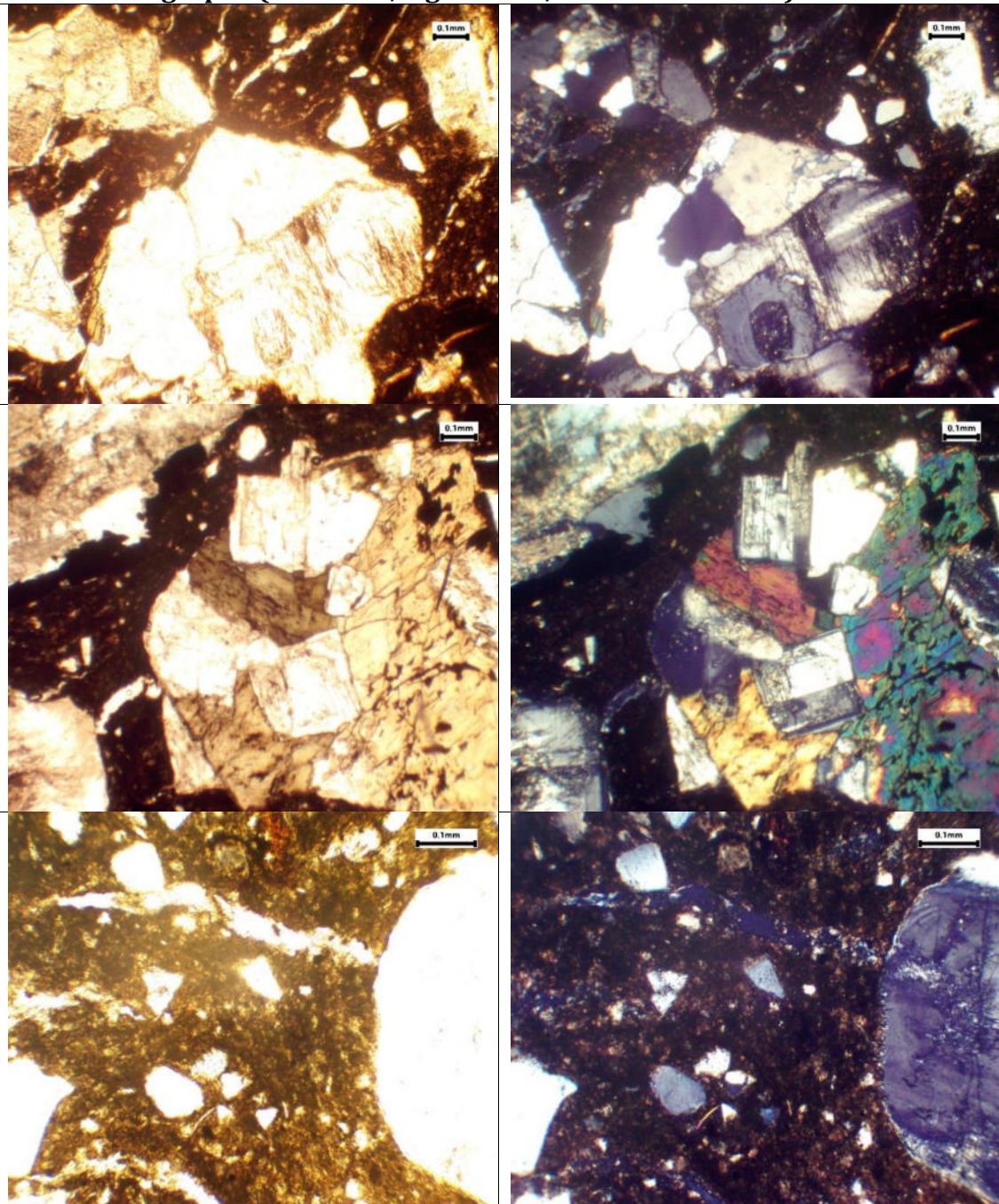
Matrix 50-60%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	moderate?	brown / brown	relic coils?

Voids 10%

Type and size	Distinct characteristics
mega/ macro vughs, planar voids, channels	despite the high coarseness degree, voids are narrow and stop at large inclusions

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP24 MFEA Museum Number: K.11998:57 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body sherd; fired in reducing atmosphere; plain; max. wall thickness 5 mm. MICROSCOPIC: Non-plastic inclusions 40% <table border="1"> <thead> <tr> <th>Coarse 40%</th><th>Fine 60%</th></tr> </thead> <tbody> <tr> <td> - quartz (euhd, eq; ang; CSa) 40% - plagioclase feldspar (euhd, eq; ang; CSa) 40% - biotite (lamellae, basal cut; s-rnd; MSa-CSa) 9.9% - granitic rock fragments – combination of quartz, feldspar, biotite and/or clinopyroxene and/or hornblende (eq; s-rnd; CSa) 10% - hornblende (eq; s-ang; MSa) 0.1% </td><td> - quartz 40% - calcite? 40% - mica 20% - hornblende? </td></tr> </tbody> </table>		Coarse 40%	Fine 60%	- quartz (euhd, eq; ang; CSa) 40% - plagioclase feldspar (euhd, eq; ang; CSa) 40% - biotite (lamellae, basal cut; s-rnd; MSa-CSa) 9.9% - granitic rock fragments – combination of quartz, feldspar, biotite and/or clinopyroxene and/or hornblende (eq; s-rnd; CSa) 10% - hornblende (eq; s-ang; MSa) 0.1%	- quartz 40% - calcite? 40% - mica 20% - hornblende?
Coarse 40%	Fine 60%				
- quartz (euhd, eq; ang; CSa) 40% - plagioclase feldspar (euhd, eq; ang; CSa) 40% - biotite (lamellae, basal cut; s-rnd; MSa-CSa) 9.9% - granitic rock fragments – combination of quartz, feldspar, biotite and/or clinopyroxene and/or hornblende (eq; s-rnd; CSa) 10% - hornblende (eq; s-ang; MSa) 0.1%	- quartz 40% - calcite? 40% - mica 20% - hornblende?				

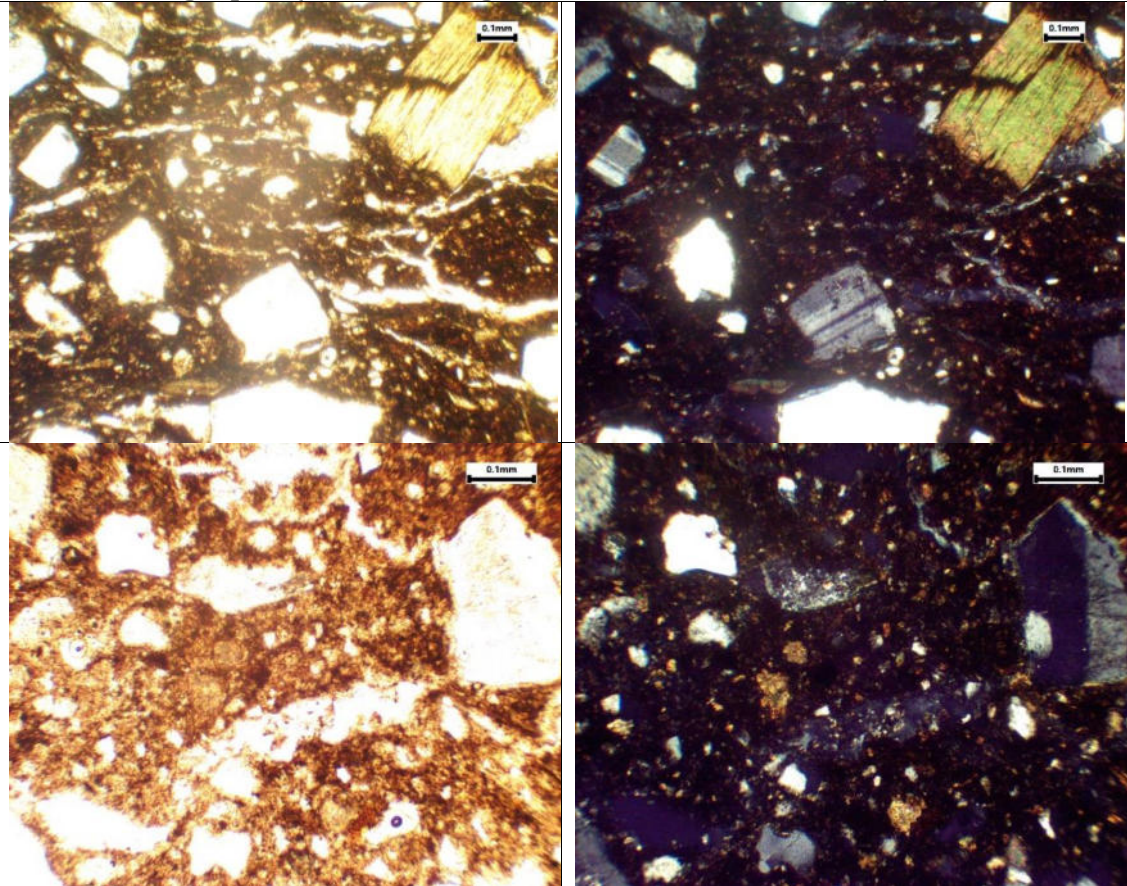
Matrix 55%

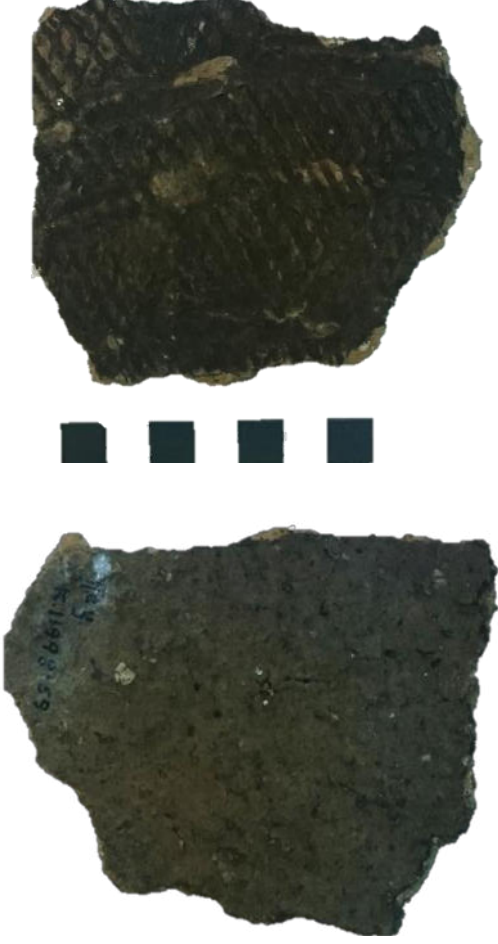
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	active	brown / brown	very coarse but low porosity

Voids 5%

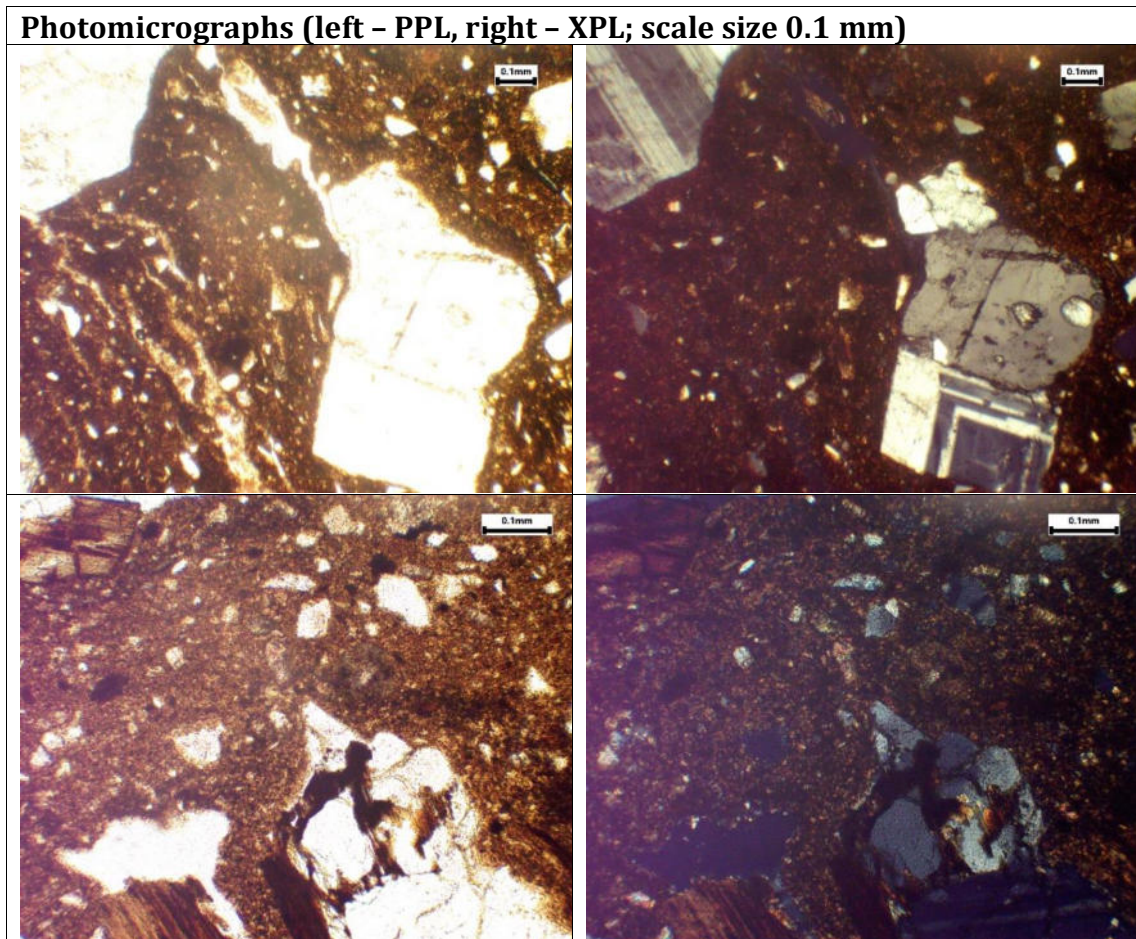
Type and size	Distinct characteristics
macro vughs, vesicles	none

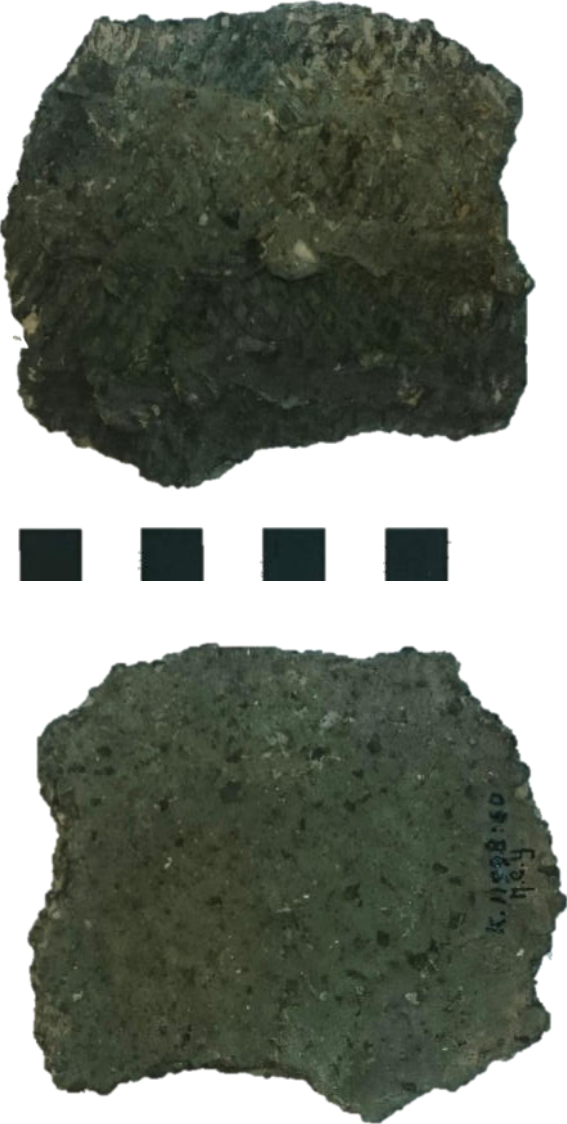
Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP25 MFEA Museum Number: K.11998:59 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments												
Sherd photo	Fabric photo												
													
	Thin section scan 												
Description													
MACROSCOPIC:													
Body sherd; oxidised core with thin reduced margins; decorated with cross-cord impression and appliqué; max. wall thickness 6 mm.													
MICROSCOPIC:													
Non-plastic inclusions 30-40%													
<table> <thead> <tr> <th>Coarse 20%</th><th>Fine 80%</th></tr> </thead> <tbody> <tr> <td>• quartz (eq, el; ang – s-rnd; FSa-CSa) 39%</td><td>• calcite 45%</td></tr> <tr> <td>• plagioclase and microcline feldspar (euhd, eq, el; ang; MSa-CSa) 30%</td><td>• quartz 45%</td></tr> <tr> <td>• crystalline and micritic calcite (eq, el; s-rnd – rnd; FSa-CSa) 20%</td><td>• mica 10%</td></tr> <tr> <td>• granitic/ metamorphic rock fragments – combination of quartz, feldspar biotite and/ or hornblende (eq, el; s-ang; CSa) 10%</td><td>• hornblende?</td></tr> <tr> <td>• calcareous sandstone? (eq; s-rnd; MSa-CSa) 1%</td><td></td></tr> </tbody> </table>	Coarse 20%	Fine 80%	• quartz (eq, el; ang – s-rnd; FSa-CSa) 39%	• calcite 45%	• plagioclase and microcline feldspar (euhd, eq, el; ang; MSa-CSa) 30%	• quartz 45%	• crystalline and micritic calcite (eq, el; s-rnd – rnd; FSa-CSa) 20%	• mica 10%	• granitic/ metamorphic rock fragments – combination of quartz, feldspar biotite and/ or hornblende (eq, el; s-ang; CSa) 10%	• hornblende?	• calcareous sandstone? (eq; s-rnd; MSa-CSa) 1%		
Coarse 20%	Fine 80%												
• quartz (eq, el; ang – s-rnd; FSa-CSa) 39%	• calcite 45%												
• plagioclase and microcline feldspar (euhd, eq, el; ang; MSa-CSa) 30%	• quartz 45%												
• crystalline and micritic calcite (eq, el; s-rnd – rnd; FSa-CSa) 20%	• mica 10%												
• granitic/ metamorphic rock fragments – combination of quartz, feldspar biotite and/ or hornblende (eq, el; s-ang; CSa) 10%	• hornblende?												
• calcareous sandstone? (eq; s-rnd; MSa-CSa) 1%													

Matrix 50-60%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	light brown / golden brown	FSa-CSa clay pellets 1-3% of the matrix; very coarse fabric but no large voids
Voids 5-10%				
Type and size	Distinct characteristics			
macro/ meso vughs, planar voids	none			



Sample code: CNP26 MFEA Museum Number: K.11998:60 Site: Majiayao	Fabric group: 5A; Coarse, Calcite and Quartz with Sedimentary rock fragments				
Sherd photo	Fabric photo				
					
	Thin section scan				
					
Description					
MACROSCOPIC: Body sherd; fired in reducing atmosphere; decorated with cross-cord impression and appliqué; max. wall thickness 8.1 mm.					
MICROSCOPIC: Non-plastic inclusions 30-40%					
<table border="0"> <thead> <tr> <th>Coarse 30%</th><th>Fine 70%</th></tr> </thead> <tbody> <tr> <td> - quartz (eq, el; ang – s-rnd; FSa-CSa) 40% - micritic calcite (eq & el s-rnd FSa-MSa) 20% </td><td> - micritic calcite 45% - quartz 40% - mica 10% - feldspar 5% </td></tr> </tbody> </table>		Coarse 30%	Fine 70%	- quartz (eq, el; ang – s-rnd; FSa-CSa) 40% - micritic calcite (eq & el s-rnd FSa-MSa) 20%	- micritic calcite 45% - quartz 40% - mica 10% - feldspar 5%
Coarse 30%	Fine 70%				
- quartz (eq, el; ang – s-rnd; FSa-CSa) 40% - micritic calcite (eq & el s-rnd FSa-MSa) 20%	- micritic calcite 45% - quartz 40% - mica 10% - feldspar 5%				

- volcanic rock fragments? - elongated plagioclase feldspar, quartz and pyroxene (?) or olivine (?) fragments in a black opaque matrix (el, eq; s-rnd – rnd; MSa-CSa) 16%
- sandstone in carbonate and opaque cement with pyroxene (?) and mica (eq; rnd; CSa) 10%
- shale/ siltstone (?) (eq; ang; MSa) 13%
- plagioclase feldspar (eq; s-rnd; FSa-MSa) 5%
- granitic rock fragments – combination of quartz, feldspar with/ without biotite (eq, el; s-rnd; CSa-FGr) 1%

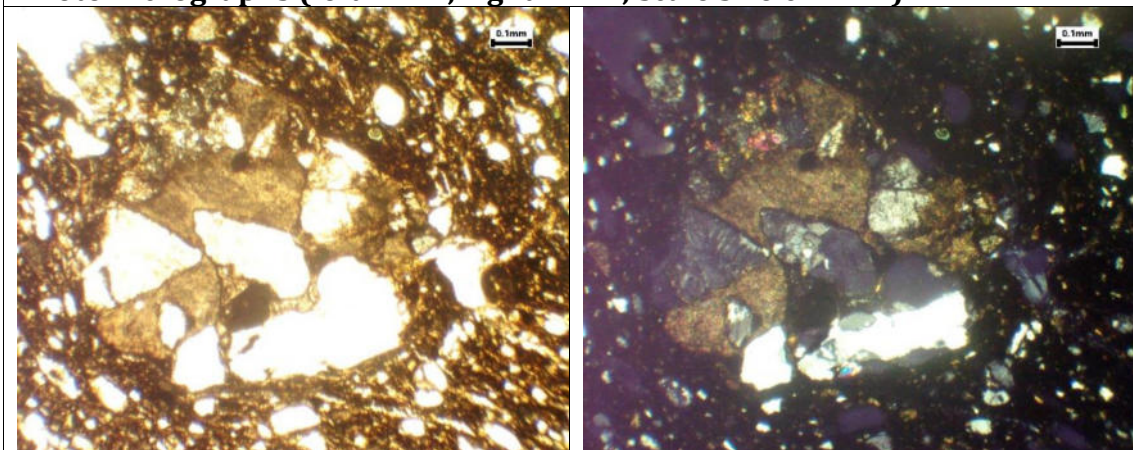
Matrix 55-65%

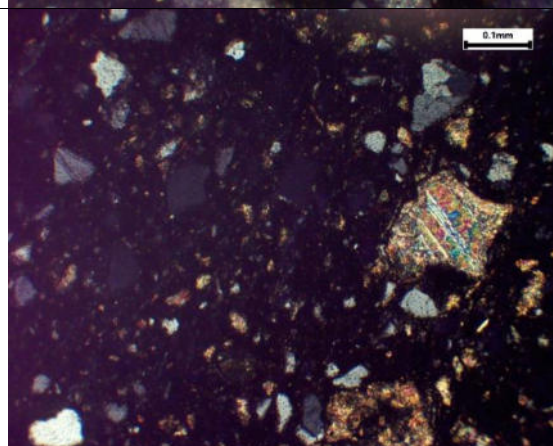
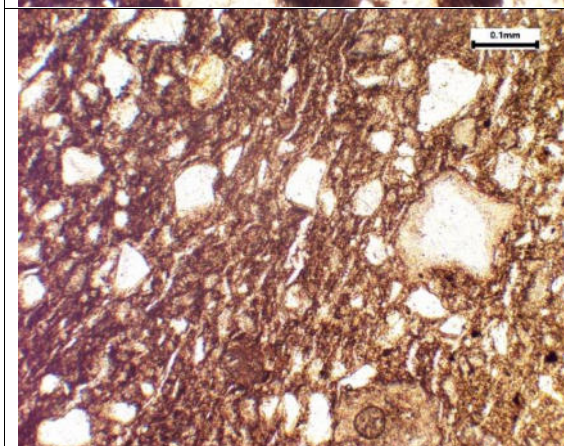
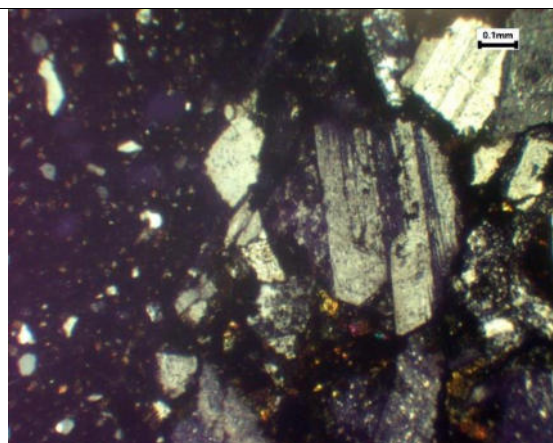
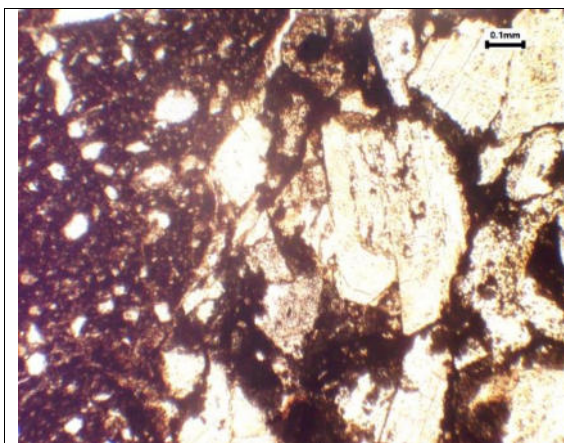
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	moderate	brown / dark brown to grey	none

Voids 5%

Type and size	Distinct characteristics
mega/macro channels, rare vughs	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)





Sample code: CNP27 MFEA Museum Number: K.11998:66 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments
Sherd photo	Fabric photo
	
	Thin section scan 

Description

MACROSCOPIC:

Body sherd; interior oxidised, exterior reduced; decorated with cross-cord impression and appliqué; max. wall thickness 7.6 mm.

MICROSCOPIC: Non-plastic inclusions 30-40%/ Matrix 45-55%/ Voids 15%
Non-plastic inclusions 30-40%

Coarse 45%

- quartz (euhd, eq, el; ang – s-ang; FSa- CSa) 34 %
- granitic rock fragments – combination of quartz, feldspar, biotite and/ or hornblende (eq & el s-rnd CSa) 30%
- plagioclase feldspar (euhd, eq, el; ang – s-ang; CSa) 15 %
- micritic calcite (eq; rnd; FSa-MSa) 15%

Fine 55%

- micrite 50%
- quartz 40%
- mica 10%

- hornblende (eq; s-ang; MSa; one in combination with olivine?) 5%
- biotite (lamellae MSa-CSa) 0.5%
- sandstone (eq; s-rnd; MSa) 0.5%

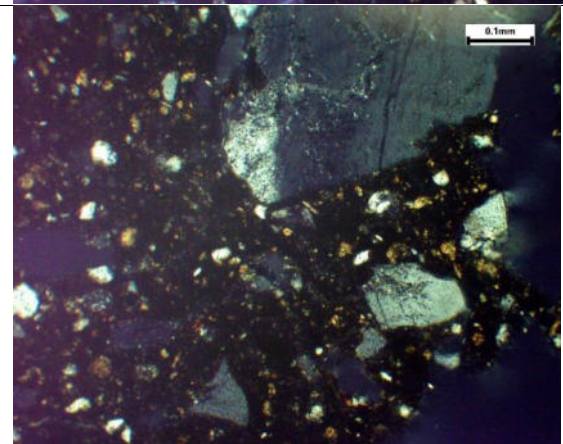
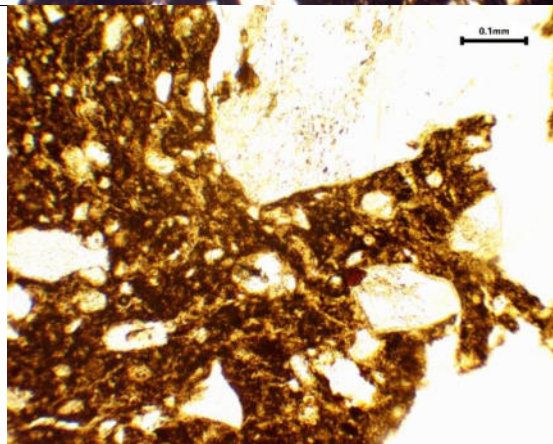
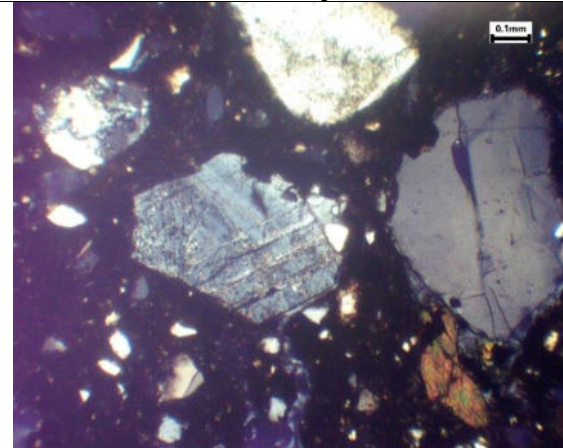
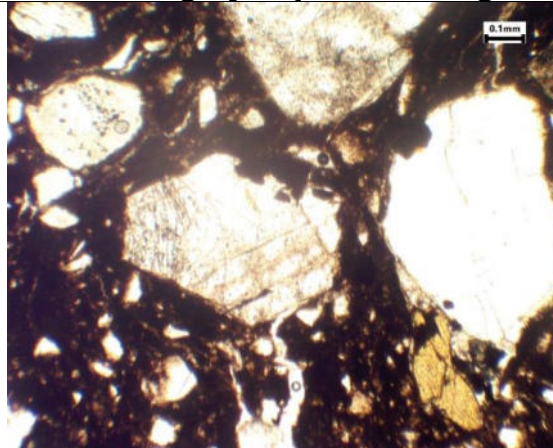
Matrix 45-55%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	dark brown / dark brown	the distribution of voids is continuous throughout the sample surface

Voids 15%

Type and size	Distinct characteristics
macro/meso vughs, channels, planar voids	network of thin planar voids all over the sample

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP28 MFEA Museum Number: K.11998:68 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC: Body sherd; first oxidised, then reduced but inner wall is oxidised; decorated with cross-cord impression and appliqué; max. wall thickness 8 mm. MICROSCOPIC: Non-plastic inclusions 35% <table border="1"> <thead> <tr> <th>Coarse 40%</th> <th>Fine 60%</th> </tr> </thead> <tbody> <tr> <td> - quartz (euhd, eq, el; ang – s-ang; FSa-CSa) 42% - granitic rock fragments – combination of quartz, feldspar, biotite and/ or hornblende (eq; s-ang – s-rnd; CSa) 40% - plagioclase feldspar (euhd, eq, el; ang – s-ang; CSa) 10 % - biotite (lamellae; MSa-CSa) 5% </td> <td> - micritic calcite 60% - quartz 30% - mica 10% </td> </tr> </tbody> </table>		Coarse 40%	Fine 60%	- quartz (euhd, eq, el; ang – s-ang; FSa-CSa) 42% - granitic rock fragments – combination of quartz, feldspar, biotite and/ or hornblende (eq; s-ang – s-rnd; CSa) 40% - plagioclase feldspar (euhd, eq, el; ang – s-ang; CSa) 10 % - biotite (lamellae; MSa-CSa) 5%	- micritic calcite 60% - quartz 30% - mica 10%
Coarse 40%	Fine 60%				
- quartz (euhd, eq, el; ang – s-ang; FSa-CSa) 42% - granitic rock fragments – combination of quartz, feldspar, biotite and/ or hornblende (eq; s-ang – s-rnd; CSa) 40% - plagioclase feldspar (euhd, eq, el; ang – s-ang; CSa) 10 % - biotite (lamellae; MSa-CSa) 5%	- micritic calcite 60% - quartz 30% - mica 10%				

- hornblende (euhd; s-ang; FSa) 3%
- micritic calcite (eq; rnd; MSa) 1%

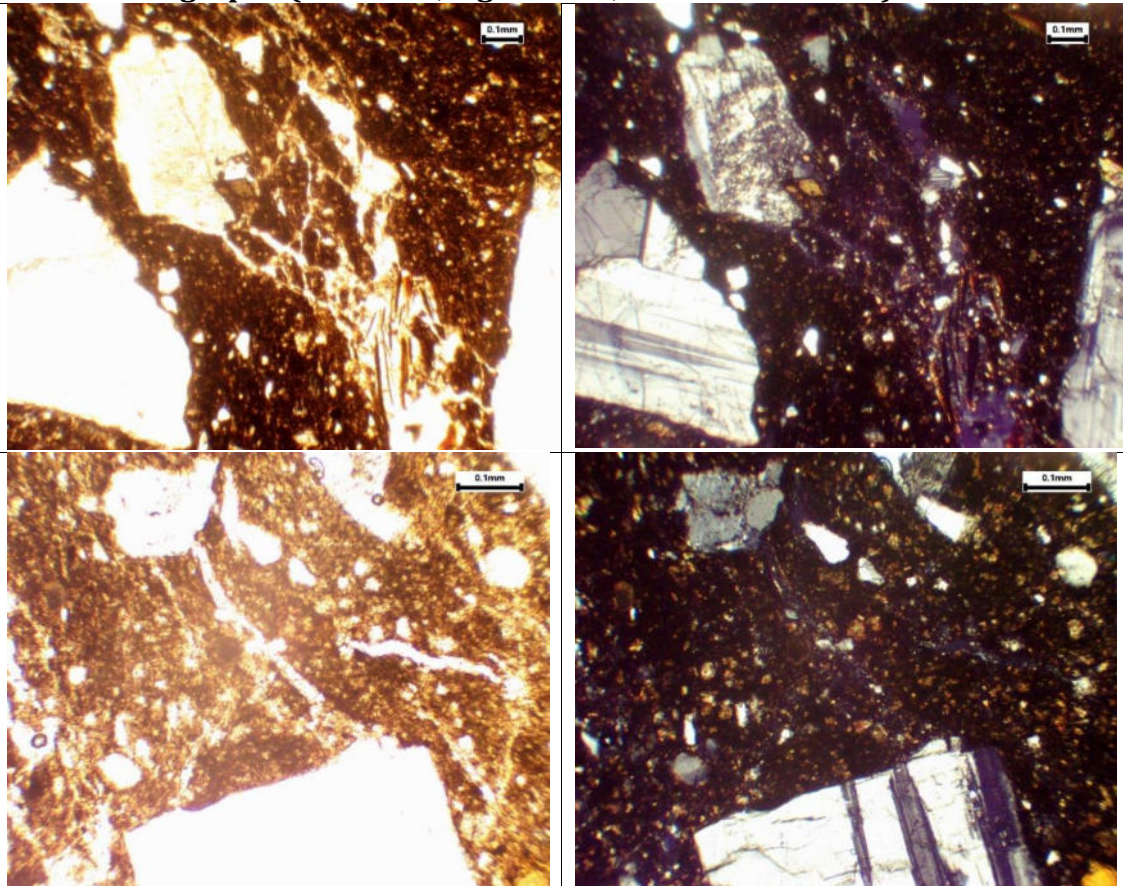
Matrix 45%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	one grey half one brown half / grey half and golden-brown half	Relic coils or poor mixing?

Voids 10-15%

Type and size	Distinct characteristics
mega/macro vesicles, planar voids, channels, vughs	none

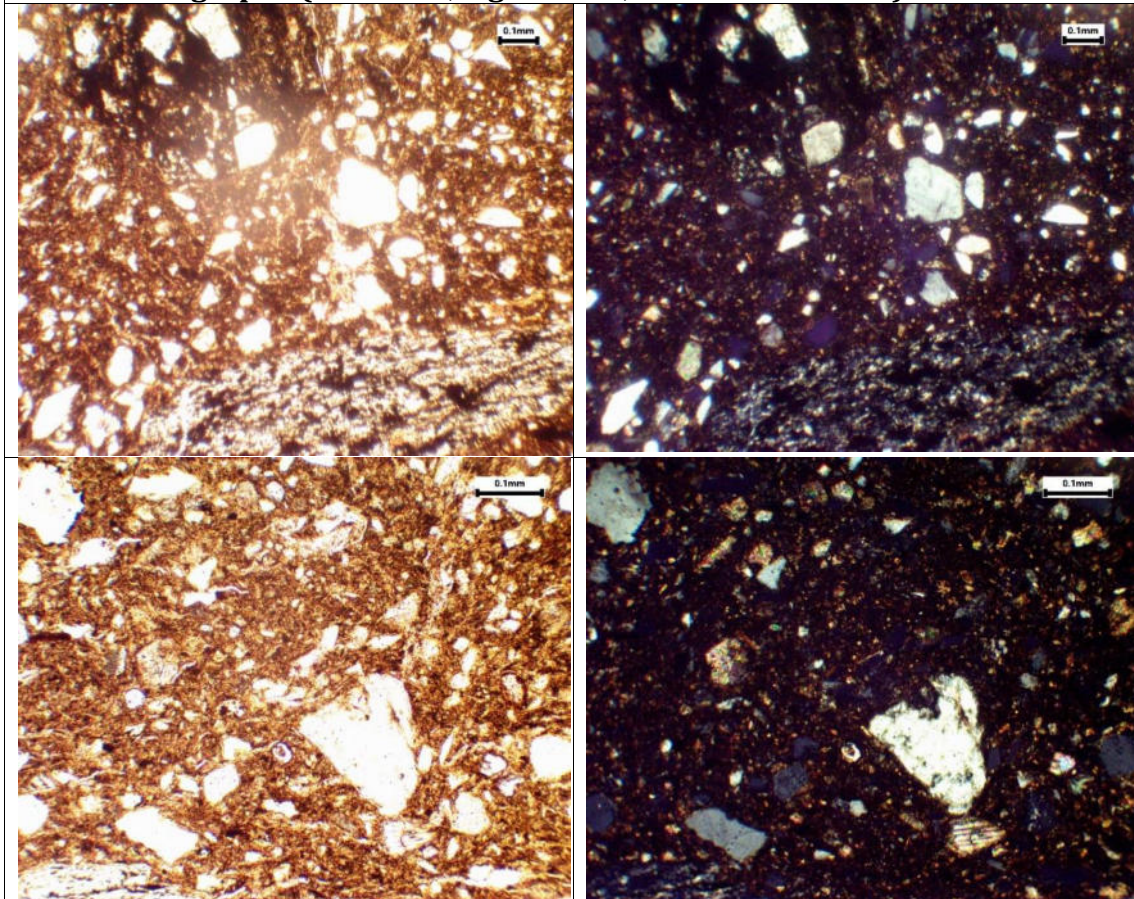
Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP29 MFEA Museum Number: K.11998:70 Site: Majiayao	Fabric group: 5A; Coarse, Calcite and Quartz with Sedimentary rock fragments				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body sherd; fired in reducing atmosphere; decorated with cross-cord impression; max. wall thickness 8.9 mm. MICROSCOPIC: Non-plastic inclusions 40% <table border="1"> <thead> <tr> <th>Coarse 40-45%</th><th>Fine 55-60%</th></tr> </thead> <tbody> <tr> <td> - quartz (euhd, eq, el; ang – s-rnd; FSa-CSa) 35% - micritic and crystalline calcite (eq s-rnd FSa-CSa) 30% - sedimentary rock fragments – shale, phyllite? siltstone (eq; s-rnd; CSa) 25% - plagioclase/ microcline feldspar (eq; ang; FSa) 6% - fine grained metamorphic rock fragments show faulting (eq; rnd; CSa) 3% - granitic rock fragments – combination of quartz, feldspar biotite and muscovite (eq; s-rnd; CSa) 1% </td><td> - calcite 50% - quartz 30% - mica 20% </td></tr> </tbody> </table>		Coarse 40-45%	Fine 55-60%	- quartz (euhd, eq, el; ang – s-rnd; FSa-CSa) 35% - micritic and crystalline calcite (eq s-rnd FSa-CSa) 30% - sedimentary rock fragments – shale, phyllite? siltstone (eq; s-rnd; CSa) 25% - plagioclase/ microcline feldspar (eq; ang; FSa) 6% - fine grained metamorphic rock fragments show faulting (eq; rnd; CSa) 3% - granitic rock fragments – combination of quartz, feldspar biotite and muscovite (eq; s-rnd; CSa) 1%	- calcite 50% - quartz 30% - mica 20%
Coarse 40-45%	Fine 55-60%				
- quartz (euhd, eq, el; ang – s-rnd; FSa-CSa) 35% - micritic and crystalline calcite (eq s-rnd FSa-CSa) 30% - sedimentary rock fragments – shale, phyllite? siltstone (eq; s-rnd; CSa) 25% - plagioclase/ microcline feldspar (eq; ang; FSa) 6% - fine grained metamorphic rock fragments show faulting (eq; rnd; CSa) 3% - granitic rock fragments – combination of quartz, feldspar biotite and muscovite (eq; s-rnd; CSa) 1%	- calcite 50% - quartz 30% - mica 20%				

Matrix 55%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	dark brown / dark brown to grey	none
Voids 5%				
Type and size		Distinct characteristics		
meso vesicles, channels		none		

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP30 MFEA Museum Number: K.11998:71 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description MACROSCOPIC: Body sherd; fired in a reducing atmosphere; decorated with cross-cord impression and appliqué; max. wall thickness 7 mm. MICROSCOPIC: Non-plastic inclusions 40-50% <table border="1"> <thead> <tr> <th>Coarse 35%</th> <th>Fine 65%</th> </tr> </thead> <tbody> <tr> <td> - quartz (euhd, eq; ang; FSa-CSa) 40% </td> <td> - micritic calcite 60% - quartz 35% </td> </tr> </tbody> </table>		Coarse 35%	Fine 65%	quartz (euhd, eq; ang; FSa-CSa) 40%	- micritic calcite 60% - quartz 35%
Coarse 35%	Fine 65%				
quartz (euhd, eq; ang; FSa-CSa) 40%	- micritic calcite 60% - quartz 35%				

- granitic rock fragments – combination of quartz, feldspar, biotite and/ or hornblende (eq; ang; CSa-FGr) 30%
- plagioclase feldspar (euhd, eq; ang; MSa-CSa) 25%
- hornblende (eq; s-rnd; MSa) 3%
- biotite (lamellae; MSa) 2%
- mica 5%

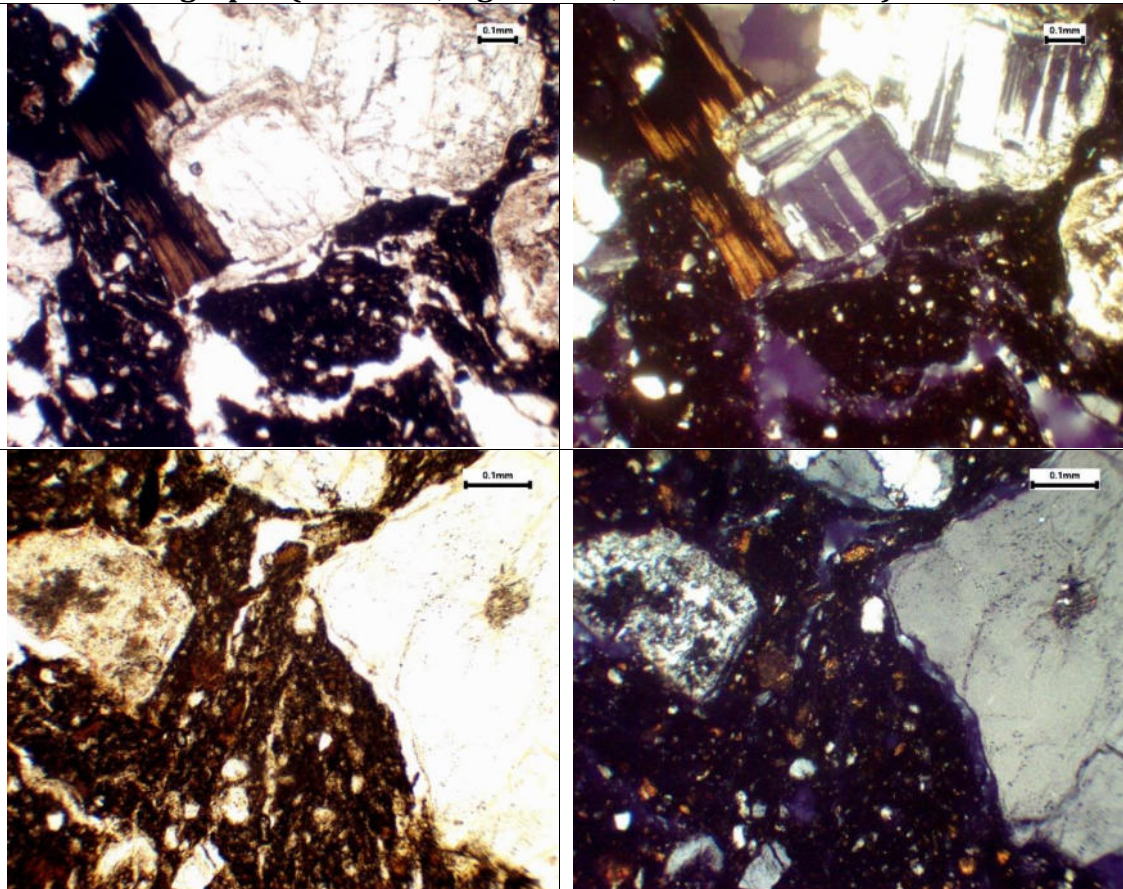
Matrix 40-50%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	inactive	dark grey / dark grey almost black	voids mostly stop at coarse inclusions

Voids 10%

Type and size	Distinct characteristics
mega/macro planar voids, vughs	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP31 MFEA Museum Number: K.11998:72 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments				
Sherd photo 	Fabric photo 				
Description MACROSCOPIC: Body sherd; fired in reducing atmosphere; decorated with diagonal cord impression and appliqué; max. wall thickness 8 mm. MICROSCOPIC: Non-plastic inclusions 30% <table border="1"> <thead> <tr> <th>Coarse 30%</th><th>Fine 70%</th></tr> </thead> <tbody> <tr> <td> - quartz (euhd, eq, el; s-ang; FSa-CSa) 43% - plagioclase feldspar (euhd, eq, el; s-ang, FSa-CSa) 40% - granitic rock fragments – combination of quartz, feldspar, biotite and/ or hornblende (eq, el; ang; CSa) 10% - biotite (lamellae; s-rnd; MSa-CSa) 5% - hornblende (el; s-ang; MSa) 2% </td><td> - mica 50% - quartz 40% - hornblende 5% - feldspar 5% </td></tr> </tbody> </table>		Coarse 30%	Fine 70%	- quartz (euhd, eq, el; s-ang; FSa-CSa) 43% - plagioclase feldspar (euhd, eq, el; s-ang, FSa-CSa) 40% - granitic rock fragments – combination of quartz, feldspar, biotite and/ or hornblende (eq, el; ang; CSa) 10% - biotite (lamellae; s-rnd; MSa-CSa) 5% - hornblende (el; s-ang; MSa) 2%	- mica 50% - quartz 40% - hornblende 5% - feldspar 5%
Coarse 30%	Fine 70%				
- quartz (euhd, eq, el; s-ang; FSa-CSa) 43% - plagioclase feldspar (euhd, eq, el; s-ang, FSa-CSa) 40% - granitic rock fragments – combination of quartz, feldspar, biotite and/ or hornblende (eq, el; ang; CSa) 10% - biotite (lamellae; s-rnd; MSa-CSa) 5% - hornblende (el; s-ang; MSa) 2%	- mica 50% - quartz 40% - hornblende 5% - feldspar 5%				

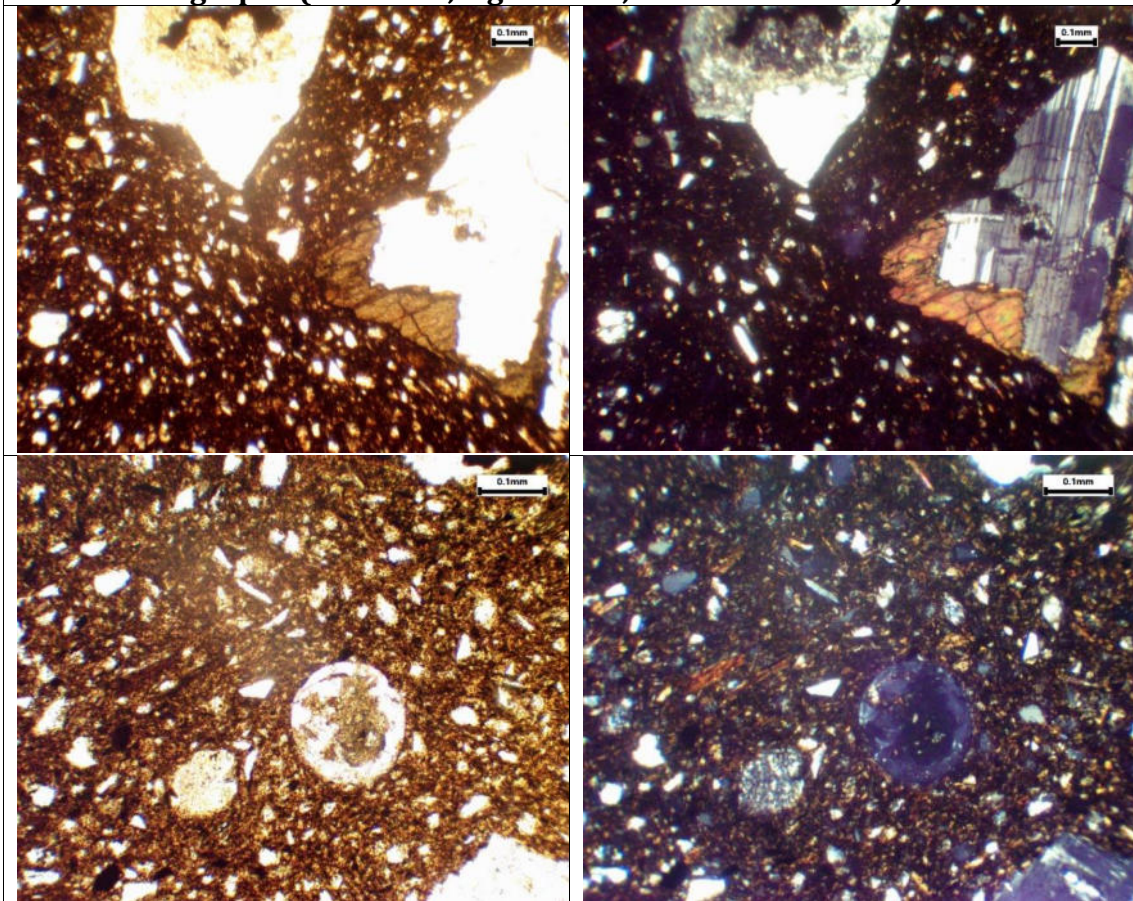
Matrix 65%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	dark brown / dark brown almost grey	Relic coils or very poor mixing? coarse but low porosity; same matrix and fine fraction as CNP31?

Voids 5%

Type and size	Distinct characteristics
macro/meso vesicles and vughs	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP32 MFEA Museum Number: K.11998:13 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body sherd; uneven reduction, light brown spots on the sherd surface; decorated with cross-cord impression and appliqué; max. wall thickness 8.8 mm. MICROSCOPIC: Non-plastic inclusions 30-40% <table border="1"> <thead> <tr> <th>Coarse 45%</th><th>Fine 55%</th></tr> </thead> <tbody> <tr> <td> - quartz (euhd, eq, el; ang, FSa-CSa) 40% - granitic/ metamorphic rock fragments – combination of quartz, feldspar, biotite and/ or hornblende (eq; ang; FGr) 30% - plagioclase feldspar (euhd, eq, el; ang; CSa) 20% - biotite (lamellae; FSa-CSa) 9% - hornblende (el; ang; MSa) 0.5% - micritic and crystalline calcite (eq; rnd; MSa) < 0.5% </td><td> - quartz 45% - calcite 45% - mica 10% </td></tr> </tbody> </table>		Coarse 45%	Fine 55%	- quartz (euhd, eq, el; ang, FSa-CSa) 40% - granitic/ metamorphic rock fragments – combination of quartz, feldspar, biotite and/ or hornblende (eq; ang; FGr) 30% - plagioclase feldspar (euhd, eq, el; ang; CSa) 20% - biotite (lamellae; FSa-CSa) 9% - hornblende (el; ang; MSa) 0.5% - micritic and crystalline calcite (eq; rnd; MSa) < 0.5%	- quartz 45% - calcite 45% - mica 10%
Coarse 45%	Fine 55%				
- quartz (euhd, eq, el; ang, FSa-CSa) 40% - granitic/ metamorphic rock fragments – combination of quartz, feldspar, biotite and/ or hornblende (eq; ang; FGr) 30% - plagioclase feldspar (euhd, eq, el; ang; CSa) 20% - biotite (lamellae; FSa-CSa) 9% - hornblende (el; ang; MSa) 0.5% - micritic and crystalline calcite (eq; rnd; MSa) < 0.5%	- quartz 45% - calcite 45% - mica 10%				

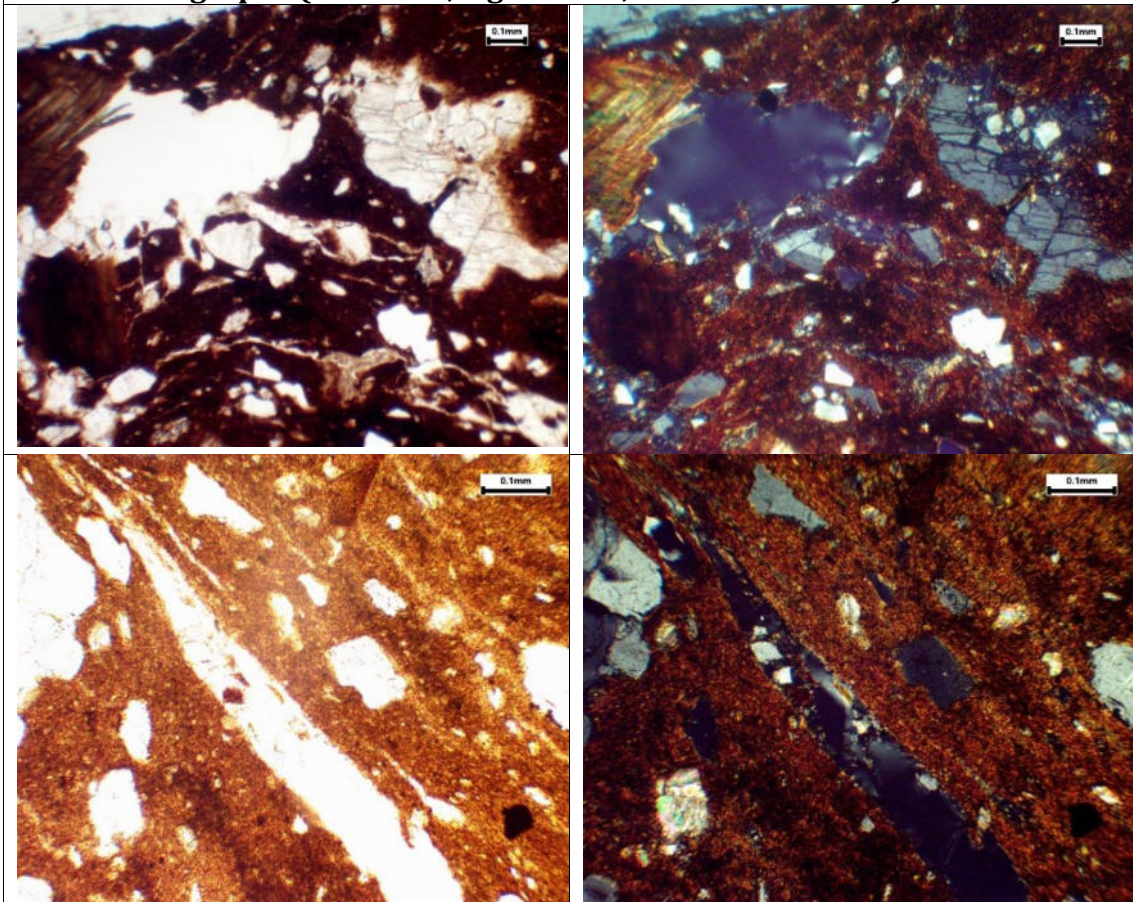
Matrix 50-60%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	light brown / golden brown	none

Voids 10%

Type and size	Distinct characteristics
mega/macro vughs, planar voids	narrow planar voids dispersed throughout the sample

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP33 MFEA Museum Number: K.11998:126 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body and base sherd; fired in reducing atmosphere; decorated with cross-cord impression and appliqué; max. wall thickness 8.2 mm. MICROSCOPIC: Non-plastic inclusions 30% <table border="1"> <thead> <tr> <th>Coarse 30-40%</th><th>Fine 60-70%</th></tr> </thead> <tbody> <tr> <td> - quartz (euhd, eq el; ang – s-rnd; FSa-CSa) 30% </td><td> - micritic calcite 50% - quartz 30% </td></tr> </tbody> </table>		Coarse 30-40%	Fine 60-70%	quartz (euhd, eq el; ang – s-rnd; FSa-CSa) 30%	- micritic calcite 50% - quartz 30%
Coarse 30-40%	Fine 60-70%				
quartz (euhd, eq el; ang – s-rnd; FSa-CSa) 30%	- micritic calcite 50% - quartz 30%				

- plagioclase feldspar (euhd, eq, el; ang – s-rnd; FSa-FGr) 30%
- micritic calcite (eq, el; s-rnd; FSa-CSa) 20%
- granitic rock fragments – combination of quartz, feldspar, biotite and/ or muscovite and/ or hornblende (eq s-rnd CSa) 18%
- biotite (lamellae; FSa-CSa) 1.5%
- sedimentary rock fragments (rnd MSa) < 0.5%
- mica 20%

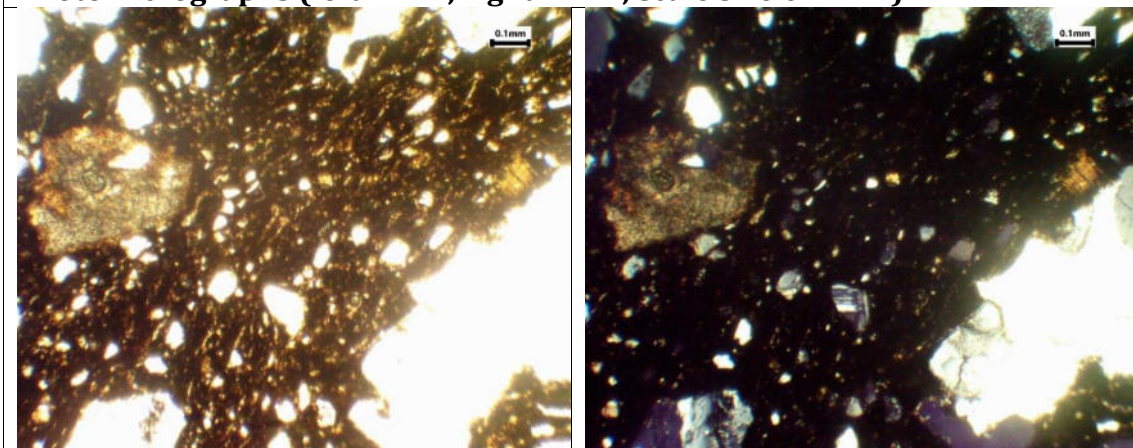
Matrix 65%

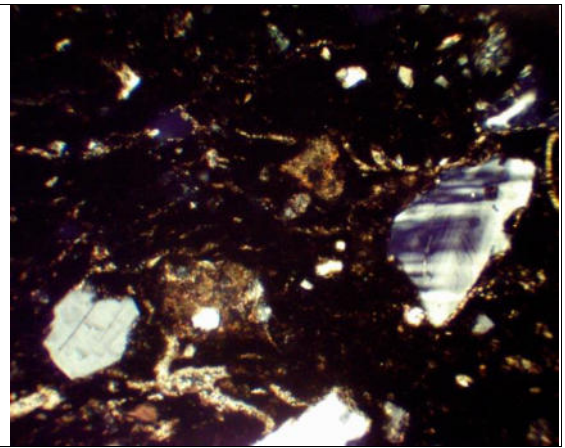
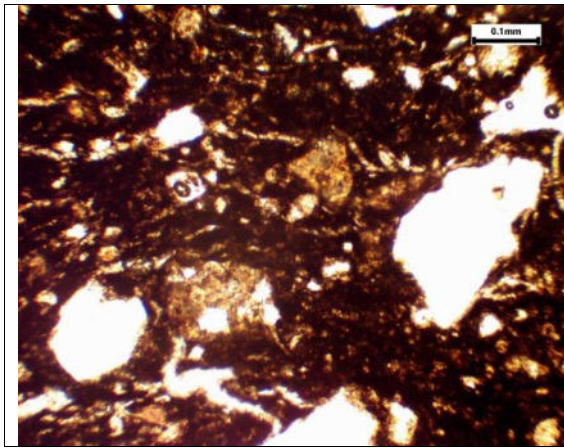
Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	moderate	dark brown/ dark brown to dark grey	Coarse but low porosity, mostly thin planar voids distributed all over the sample surface; re-deposited natural calcite?

Voids 5%

Type and size	Distinct characteristics
thin planar voids	secondary or redeposited calcite accumulation in the voids

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)





Sample code: CNP34 MFEA Museum Number: K.11998:129 Site: Majiayao	Fabric group: 5B; Coarse, Calcite and Quartz with Sedimentary rock fragments, less coarse fraction, and low porosity than Fabric group 5A								
Sherd photo 	Fabric photo  Thin section scan 								
Description MACROSCOPIC: Rim and spout sherd; fired in reducing atmosphere; decorated with diagonal cord impression; max. wall thickness 9 mm, rim 11 mm. MICROSCOPIC: Non-plastic inclusions 30% <table border="1"> <thead> <tr> <th>Coarse 15-20%</th><th>Fine 80-85%</th></tr> </thead> <tbody> <tr> <td> - quartz (eq, el; FSa-CSa) 39% </td><td> - calcite 35% </td></tr> <tr> <td> - micritic and crystalline calcite (eq; rnd; MSa-CSa) 30% </td><td> - quartz 30% - mica 30% </td></tr> <tr> <td></td><td> - feldspar 5% </td></tr> </tbody> </table>		Coarse 15-20%	Fine 80-85%	quartz (eq, el; FSa-CSa) 39%	calcite 35%	micritic and crystalline calcite (eq; rnd; MSa-CSa) 30%	- quartz 30% - mica 30%		feldspar 5%
Coarse 15-20%	Fine 80-85%								
quartz (eq, el; FSa-CSa) 39%	calcite 35%								
micritic and crystalline calcite (eq; rnd; MSa-CSa) 30%	- quartz 30% - mica 30%								
	feldspar 5%								

- sedimentary rock fragments – sandstone and siltstone (eq; s-rnd; CSa) 25%
- plagioclase feldspar (eq; ang; FSa-CSa) 5%
- quartz-mica-schist (el; s-rnd; CSa) 1%

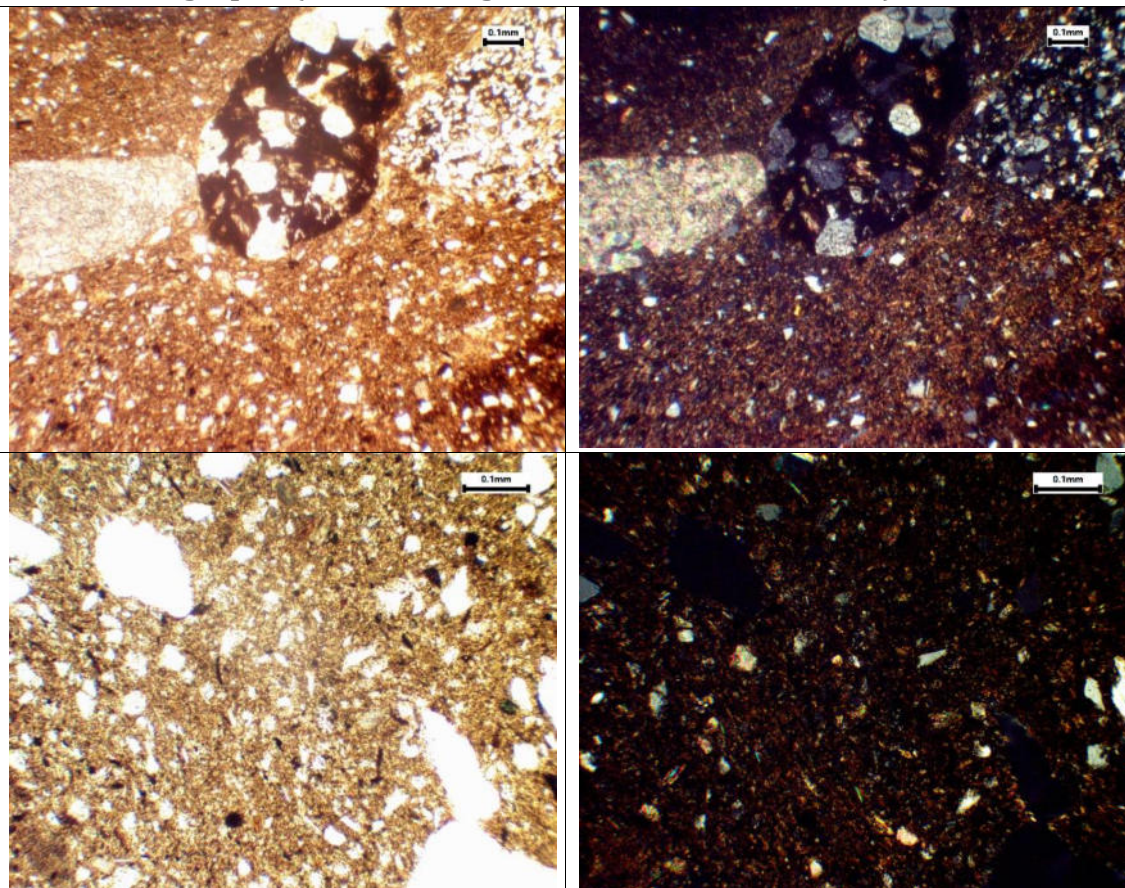
Matrix 67%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	light brown grey / golden grey	coarse but low porosity

Voids 3%

Type and size	Distinct characteristics
macro/meso vesicles, one elongated void	Elongated void has charred margins – burnt organic matter?

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP35 MFEA Museum Number: K.11998:131 Site: Majiayao	Fabric group: 4C; Coarse Quartz and Granodiorite fragments with clay pellets
Sherd photo 	Fabric photo  Thin section scan 
Description MACROSCOPIC: Rim and spout sherd; fired in oxidising atmosphere; plain; max. wall thickness 19 mm. MICROSCOPIC: Non-plastic inclusions 10-15% Coarse 30% Fine 70% - quartz (eq, el; s-rnd; FSa-MSa) 59% - granitic/ metamorphic rock fragments – combination of quartz, plagioclase feldspar, biotite with/ without hornblende (eq; s-ang – s-rnd; CSa- FGr) 30% - plagioclase feldspar (eq, el; s-ang; FSa-CSa) 10% - biotite (lamellae, FSa-CSa) 1% - quartz 90% - mica 10%	

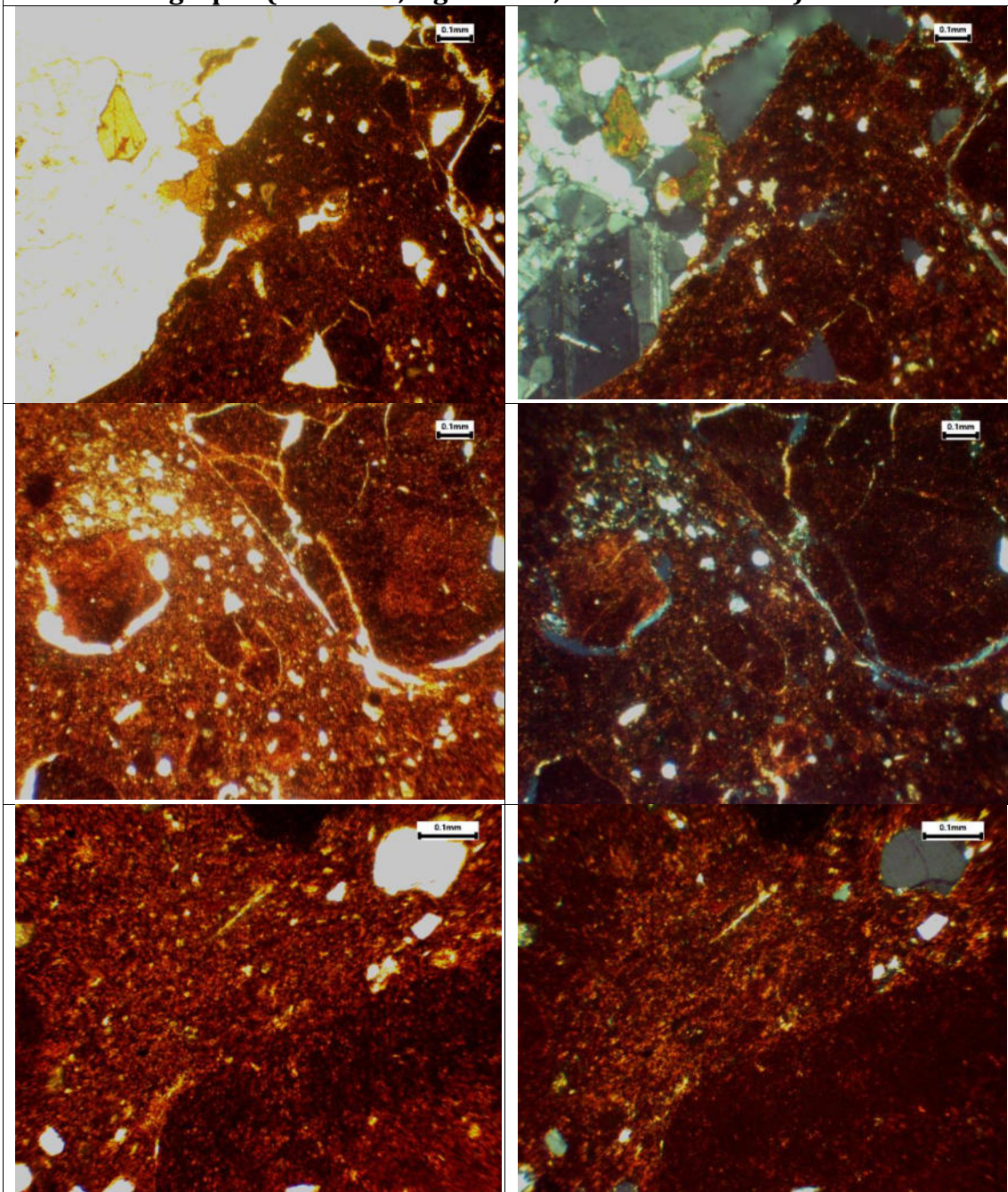
Matrix 75-80%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	red brown/ golden brown	MSa-CSa clay pellets, >10% of the matrix

Voids 10%

Type and size	Distinct characteristics
macro/ meso vughs, vesicles	secondary calcite accumulations in voids

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP36 MFEA Museum Number: K.11998:132 Site: Majiayao	Fabric group: 4D; Coarse-fine combination fabric: coarse Quartz- Feldspar with Granodiorite fragments				
Sherd photo 	Fabric photo 				
Description MACROSCOPIC: Rim and spout sherd; fired in oxidising atmosphere; plain, polished; max. wall thickness 10 mm. MICROSCOPIC: Non-plastic inclusions 30-35% of the entire sherd <table border="1"> <tr> <td>Coarse fabric 35% inclusions</td><td>Fine fabric 25% inclusions</td></tr> <tr> <td>Coarse 10%: - quartz and quartzite (eq, el; s-ang – s-rnd; CSa-FGr) 75% - plagioclase feldspar (eq; s-ang s-rnd; CSa) 20% </td><td>Coarse 0% Fine 100%: - quartz 55% - mica 40% - feldspar 5% </td></tr> </table>		Coarse fabric 35% inclusions	Fine fabric 25% inclusions	Coarse 10%: - quartz and quartzite (eq, el; s-ang – s-rnd; CSa-FGr) 75% - plagioclase feldspar (eq; s-ang s-rnd; CSa) 20%	Coarse 0% Fine 100%: - quartz 55% - mica 40% - feldspar 5%
Coarse fabric 35% inclusions	Fine fabric 25% inclusions				
Coarse 10%: - quartz and quartzite (eq, el; s-ang – s-rnd; CSa-FGr) 75% - plagioclase feldspar (eq; s-ang s-rnd; CSa) 20%	Coarse 0% Fine 100%: - quartz 55% - mica 40% - feldspar 5%				

- granitic rock fragments – combination of quartz, plagioclase feldspar, biotite (eq; s-ang; CSa-FGr) 5%

Fine 90%:

- quartz 55%
- mica 40%
- feldspar 5%

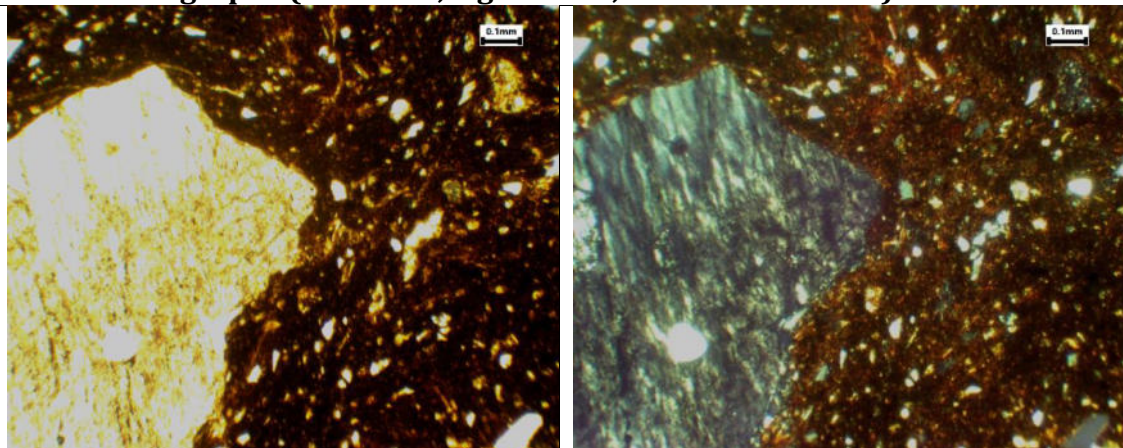
Matrix 64-67%

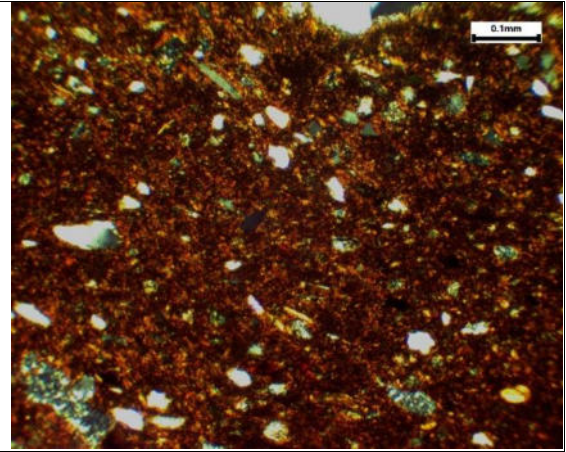
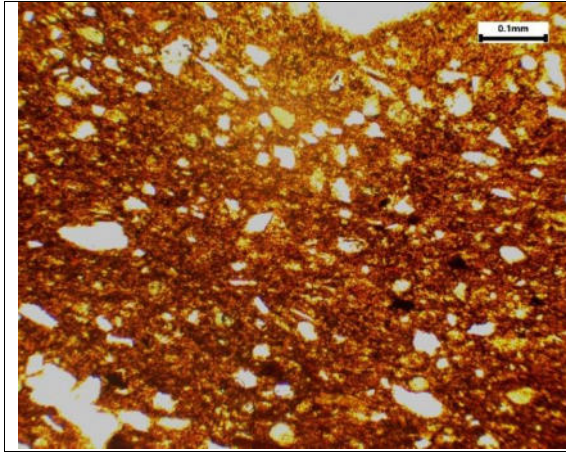
Homo-/heterogeneity (both fabrics)	Sorting	Optical activity (both fabrics)	Colour in PPL/ in XPL (both fabrics)	Textural features/ comments
homogeneous	coarse: poor fine: well	active	dark brown/ golden brown	The coarse and fine parts have the same groundmass; low porosity; belongs to the same vessel as the sherds K.11999:470-471 which have diagonal or cross-cord impression.

Voids 1-3%

Type and size	Distinct characteristics
macro/ meso vughs, channels	secondary calcite in the voids

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)





Sample code: CNP37 MFEA Museum Number: K.11998:142 Site: Majiayao	Fabric group: 7; Semi-coarse, Quartz dominant
Sherd photo	Fabric photo
	
	Thin section scan 
Description MACROSCOPIC: Body sherd; uneven oxidation? red oxidised core, outer margins: light brown margin to the exterior side and buff pink margin to the inner side; decorated with cord impression following one direction (orientation is unidentifiable on this body sherd, possibly diagonal); max. wall thickness 3.7 mm.	

MICROSCOPIC:

Non-plastic inclusions 20-30%

Coarse 30%

- quartz (eq, el; ang – s-rnd; FSa-MSa) 90%
- feldspar (eq; s-rnd; FSa-MSa) 10%

Fine 70%

- mica 50%
- quartz 45%
- feldspar 5%

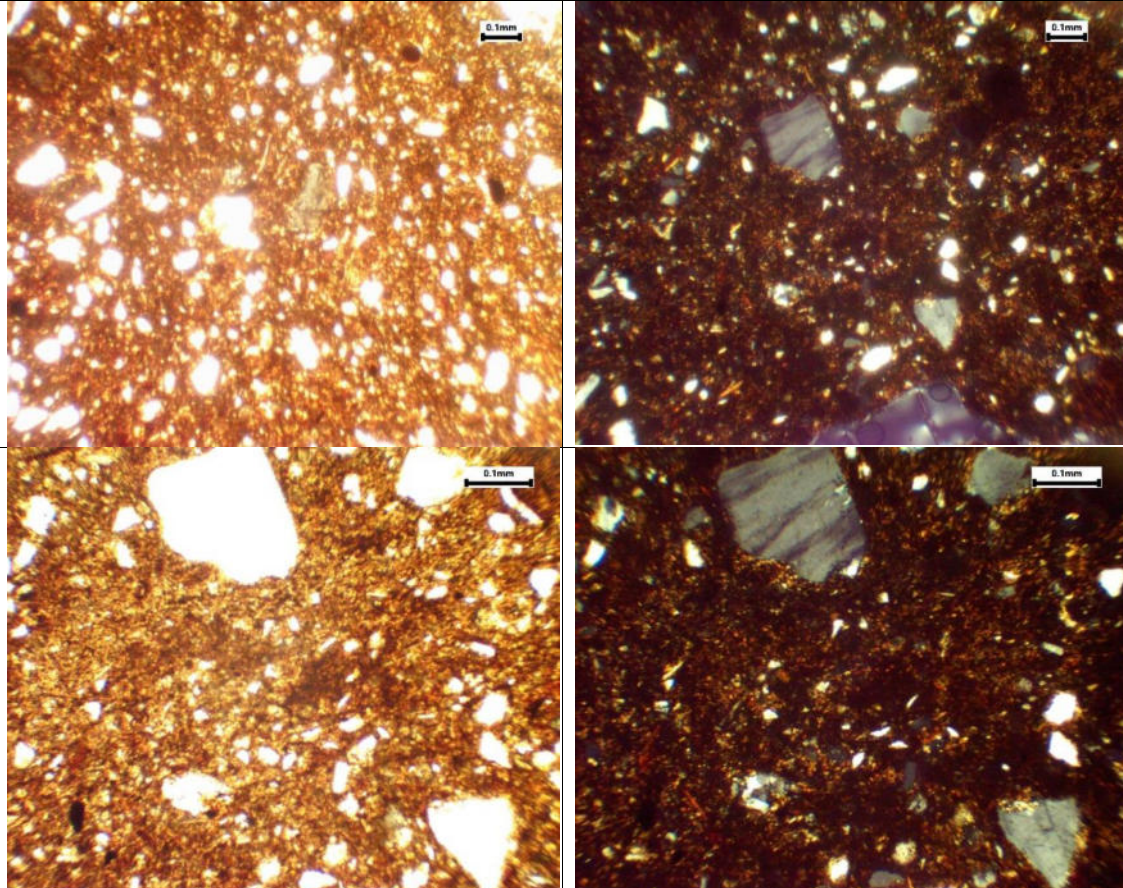
Matrix 69-79%

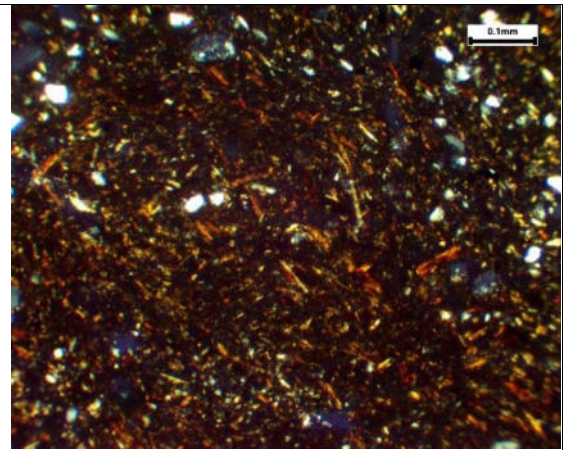
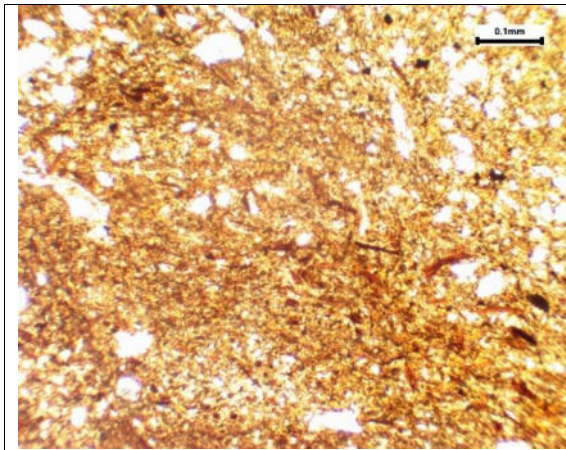
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	moderate	brown/ dark brown	CSa-FGr clay pellets 3-5% of the matrix; secondary or re-deposited natural calcite?

Voids 1%

Type and size	Distinct characteristics
meso vesicles, vughs, planar voids	micritic calcite fillings in planar voids and calcite fringe in a vugh

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)





Sample code: CNP38 MFEA Museum Number: K.11998:218 Site: Majiayao		Fabric group: 1; Fine, Mica-Quartz - Feldspar		
Sherd photo		Fabric photo		
				
		Thin section scan		
				
Description				
MACROSCOPIC: Rim sherd; slightly reduced core, oxidised margins; polished and painted in black; max. wall thickness 11 mm.				
MICROSCOPIC: Non-plastic inclusions 30-40%				
Coarse 0%		Fine 100%		
none		• mica 45% • quartz 40% • feldspar 10% • micritic calcite 5% • amphibole?		
Matrix 59-69%				
Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	greyish brown / dark golden grey	none

Voids 1%

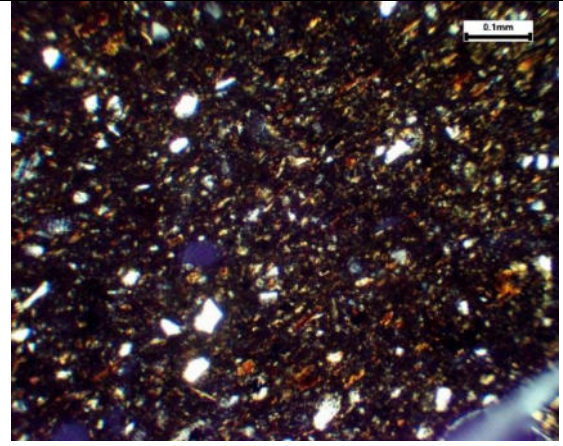
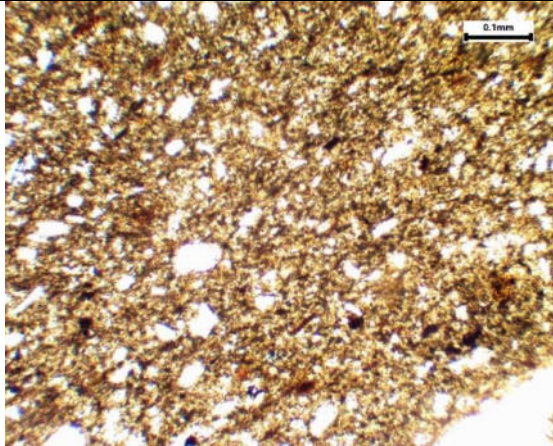
Type and size

meso vughs, vesicles

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP39 MFEA Museum Number: K.11998:219 Site: Majiayao	Fabric group: 1; Fine, Mica-Quartz - Feldspar			
Sherd photo	Fabric photo			
				
	Thin section scan			
				
Description				
MACROSCOPIC: Rim sherd; slightly reduced core, oxidised margins; polished and painted in black; max. wall thickness 6.5 mm.				
MICROSCOPIC: Non-plastic inclusions 20-30%				
Coarse 0%		Fine 100%		
none		• mica 55% • quartz 40% • feldspar 5%		
Matrix 65-75%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	brown/ golden brown	none

Voids 3-5%

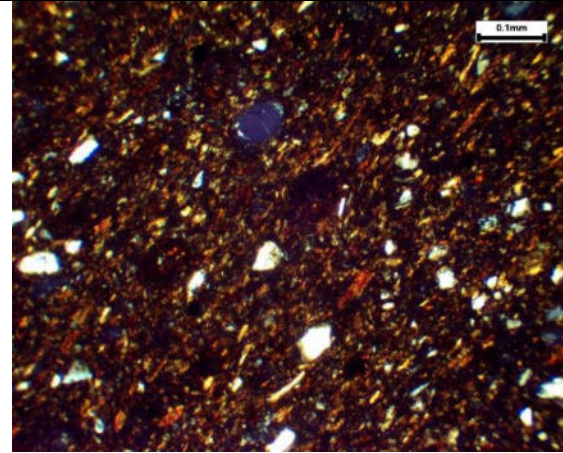
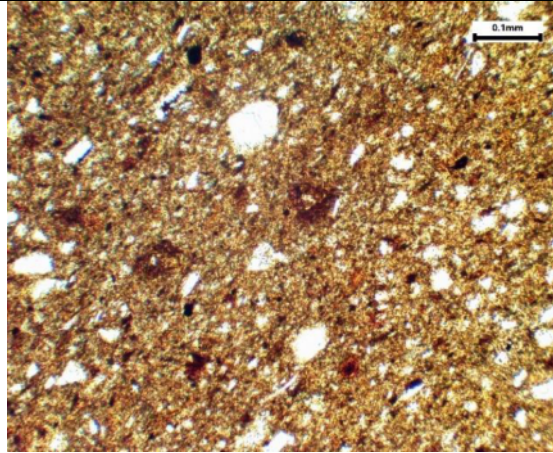
Type and size

Distinct characteristics

macro/meso vesicles, vughs

few voids have secondary calcite accumulations

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP40		Fabric group: 1; Fine, Mica-Quartz - Feldspar		
MFEA Museum Number: K.11998:220				
Site: Majiayao				
Sherd photo		Fabric photo		
				
		Thin section scan 		
Description				
MACROSCOPIC: Rim sherd; reduced inner core, orange oxidised outer core and buff margins; polished and painted black; max. wall thickness 8 mm.				
MICROSCOPIC: Non-plastic inclusions 30%				
Coarse 0%		Fine 100%		
none		- quartz 40% - mica 30% - calcite 25% - feldspar 5%		
Matrix 65%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	red brown to dark brown/ golden brown to red brown	none

Voids 3-5%

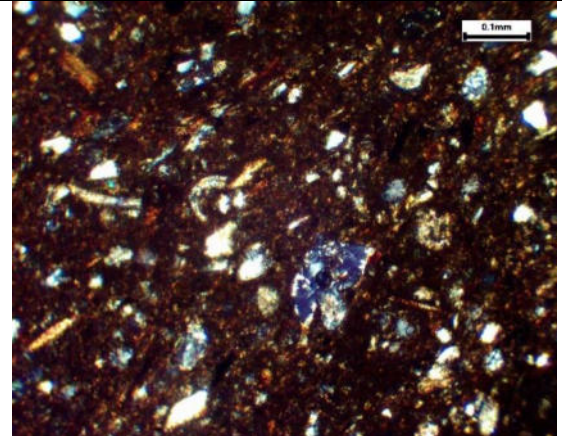
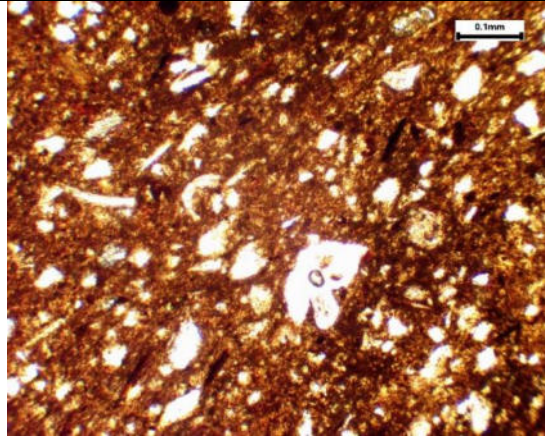
Type and size

macro/meso vesicles,
vughs

Distinct characteristics

secondary calcite accumulations along void
margins

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP41 MFEA Museum Number: K.11998:228 Site: Majiayao	Fabric group: 1; Fine, Mica-Quartz - Feldspar
Sherd photo	Fabric photo
	
	Thin section scan 
Description	
MACROSCOPIC:	
Rim sherd; fired in oxidising atmosphere; polished and painted in black; max. wall thickness 9 mm.	
MICROSCOPIC:	
Non-plastic inclusions 20%	
Coarse 0%	Fine 100%
none	quartz 54%
	mica 45%
	feldspar 1%
Matrix 75%	
Homo-/heterogeneity	Sorting
homogeneous	well
Optical activity	active
Colour in PPL/ in XPL	red brown/ golden brown
Textural features/ comments	FSa-MSa clay pellets 1-3% of the matrix

Voids 5%

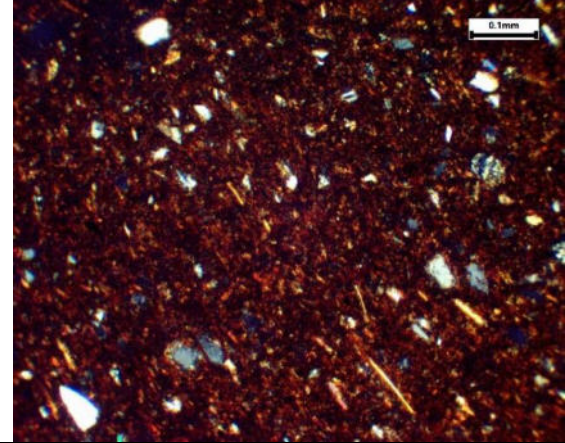
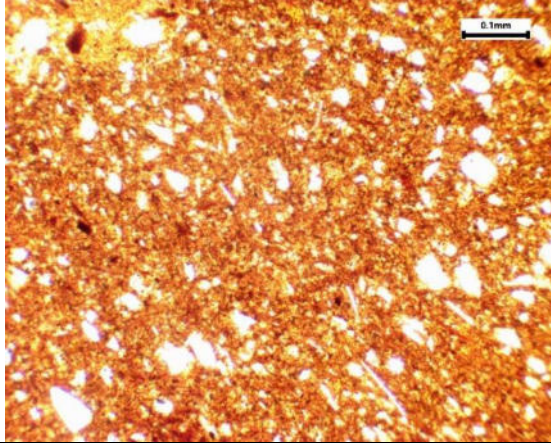
Type and size

macro/meso vesicles, vughs

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP42 MFEA Museum Number: K.11998:229 Site: Majiayao	Fabric group: 1; Fine, Mica-Quartz-Feldspar										
Sherd photo	Fabric photo										
											
	Thin section scan										
											
Description											
MACROSCOPIC: Neck and shoulder sherd; slightly reduced core, oxidised margins; polished and painted brown(?); max. wall thickness 6.8 mm.											
MICROSCOPIC: Non-plastic inclusions 30%											
<table><tr><td colspan="2">Coarse < 0.1%</td><td colspan="2">Fine 99.9%</td></tr><tr><td colspan="2"> - haematite(?) back opaque inclusions (eq, el; rnd; MSa) 90% - quartz (eq; s-rnd; MSa-CSa) 10% </td><td colspan="2"> - mica 45% - quartz 44% - feldspar 1% </td></tr></table>		Coarse < 0.1%		Fine 99.9%		- haematite(?) back opaque inclusions (eq, el; rnd; MSa) 90% - quartz (eq; s-rnd; MSa-CSa) 10%		- mica 45% - quartz 44% - feldspar 1%			
Coarse < 0.1%		Fine 99.9%									
- haematite(?) back opaque inclusions (eq, el; rnd; MSa) 90% - quartz (eq; s-rnd; MSa-CSa) 10%		- mica 45% - quartz 44% - feldspar 1%									
Matrix 67%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>active</td><td>brown/ golden greyish brown</td><td>none</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	active	brown/ golden greyish brown	none
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	active	brown/ golden greyish brown	none							

Voids 1-3%

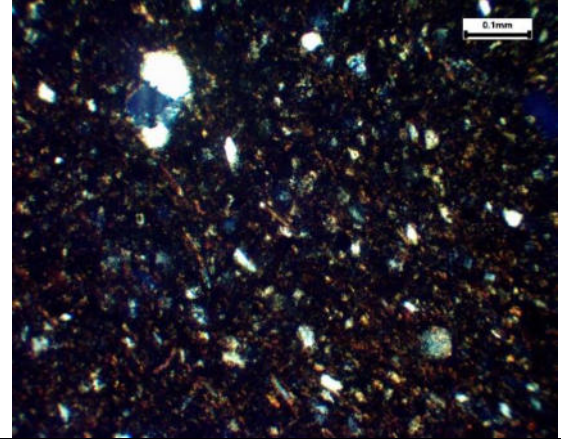
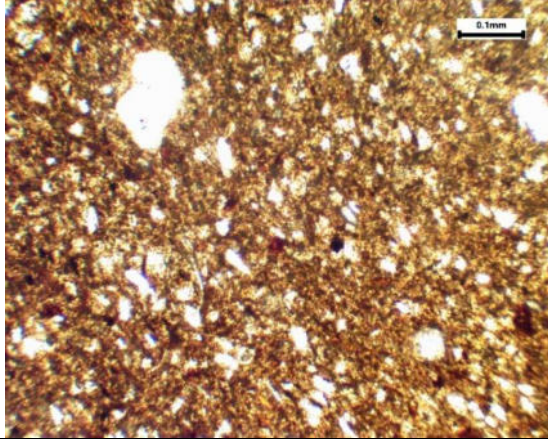
Type and size

macro/meso vesicles, vughs

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP43 MFEA Museum Number: K.11998:230 Site: Majiayao	Fabric group: 2B; Fine Mica-Quartz-Feldspar with Calcite fraction				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC: Rim sherd; reduced core, oxidised margins; polished and painted black with appliqué; max. wall thickness 5.6 mm. MICROSCOPIC: Non-plastic inclusions 10-20% <table border="1"> <thead> <tr> <th>Coarse 1%</th><th>Fine 99%</th></tr> </thead> <tbody> <tr> <td> - micritic calcite (eq, el; s-rnd; FSa-MSa) 59% - quartz/ quartzite (eq, el; s-rnd; FSa-MSa) 30% - plagioclase feldspar (eq; s-rnd; MSa) 10% - granitic rock fragment – combination of quartz, feldspar, biotite and hornblende (eq; ang; MSa) 0.5% - hornblende (eq; s-ang; MSa) 0.5% </td><td> - mica 35% - quartz 35% - micritic calcite 25% - feldspar 5% </td></tr> </tbody> </table>		Coarse 1%	Fine 99%	- micritic calcite (eq, el; s-rnd; FSa-MSa) 59% - quartz/ quartzite (eq, el; s-rnd; FSa-MSa) 30% - plagioclase feldspar (eq; s-rnd; MSa) 10% - granitic rock fragment – combination of quartz, feldspar, biotite and hornblende (eq; ang; MSa) 0.5% - hornblende (eq; s-ang; MSa) 0.5%	- mica 35% - quartz 35% - micritic calcite 25% - feldspar 5%
Coarse 1%	Fine 99%				
- micritic calcite (eq, el; s-rnd; FSa-MSa) 59% - quartz/ quartzite (eq, el; s-rnd; FSa-MSa) 30% - plagioclase feldspar (eq; s-rnd; MSa) 10% - granitic rock fragment – combination of quartz, feldspar, biotite and hornblende (eq; ang; MSa) 0.5% - hornblende (eq; s-ang; MSa) 0.5%	- mica 35% - quartz 35% - micritic calcite 25% - feldspar 5%				

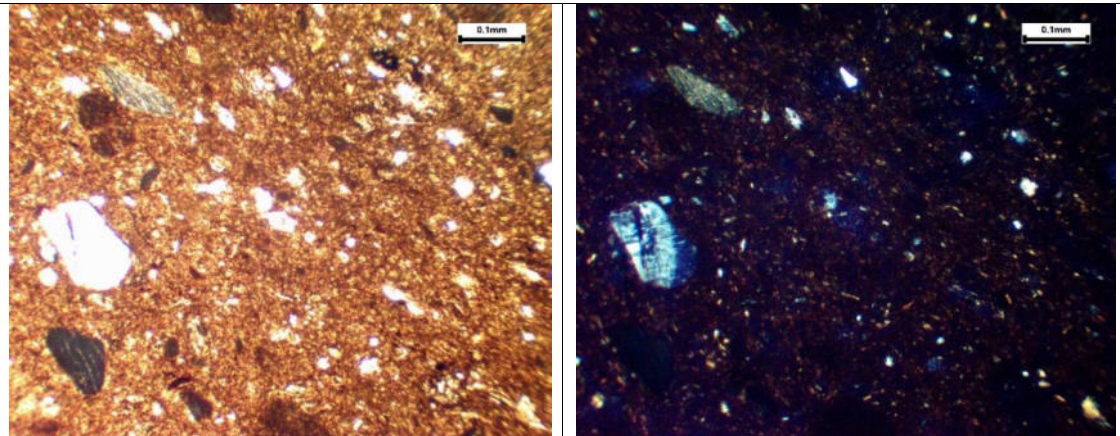
Matrix 70-80%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	dark brown/ dark golden brown	burnt organic matter? secondary or naturally present calcite?

Voids 10%

Type and size	Distinct characteristics
macro/meso vughs	some vughs have black margins and could have been left by organic matter; large, elongated void between the body and appliqué

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP44 MFEA Museum Number: K.11998:245 Site: Majiayao		Fabric group: 1; Fine, Mica-Quartz-Feldspar		
Sherd photo		Fabric photo		
				
		Thin section scan		
				
Description				
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished, painted in black with appliqué; max. wall thickness 5 mm.				
MICROSCOPIC: Non-plastic inclusions 10-20%				
Coarse 0%		Fine 100%		
none		• mica 50% • quartz 40% • feldspar 10%		
Matrix 70-80%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	light brown – brown/ golden brown	none

Voids 5-10%

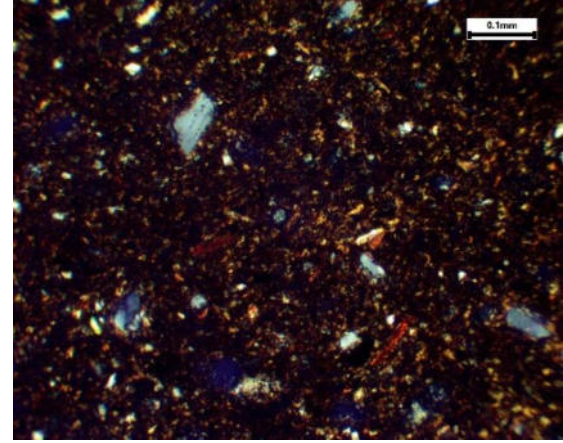
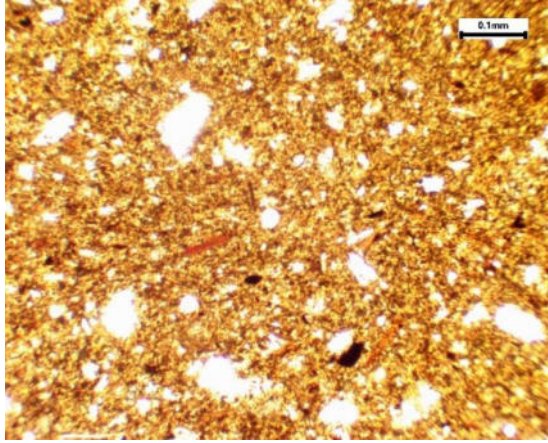
Type and size

macro/meso channels, vughs, vesicles

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP45	Fabric group: 2A; Fine Mica-Quartz-										
MFEA Museum Number: K.11998:269	Feldspar with lesser inclusion										
Site: Majiayao	frequency than Fabric 1										
Sherd photo	Fabric photo										
											
	Thin section scan										
Description											
MACROSCOPIC:											
Neck sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 6 mm.											
MICROSCOPIC:											
Non-plastic inclusions 10%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> • mica 55% • quartz 45% • feldspar 5% </td></tr></table>		Coarse 0%	Fine 100%	none	• mica 55% • quartz 45% • feldspar 5%						
Coarse 0%	Fine 100%										
none	• mica 55% • quartz 45% • feldspar 5%										
Matrix 85%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>moderate</td><td>brown/ dark golden brown</td><td>none</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	moderate	brown/ dark golden brown	none
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	moderate	brown/ dark golden brown	none							

Voids 3-5%

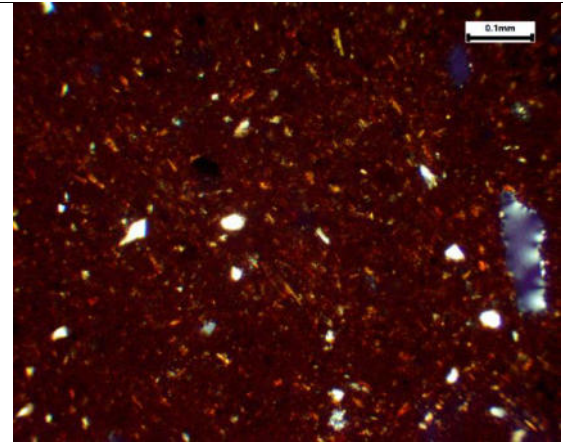
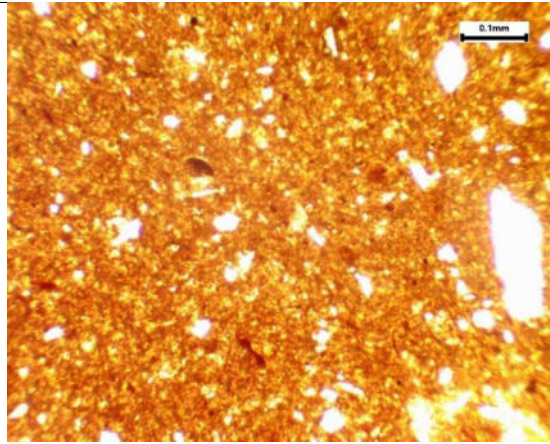
Type and size

micro/meso vesicles, vughs

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP46 MFEA Museum Number: K.11998:280 Site: Majiayao	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1
Sherd photo	Fabric photo
	
	Thin section scan 
Description	
MACROSCOPIC:	
Rim sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 6.4 mm.	
MICROSCOPIC:	
Non-plastic inclusions 10%	
Coarse 0%	Fine 100%
none	• mica 55%
	• quartz 40%
	• feldspar 5%
Matrix 85%	
Homo-/heterogeneity	Sorting
homogeneous	well
Optical activity	moderate
Colour in PPL/ in XPL	brown/ red brown
Textural features/ comments	none

Voids 3-5%

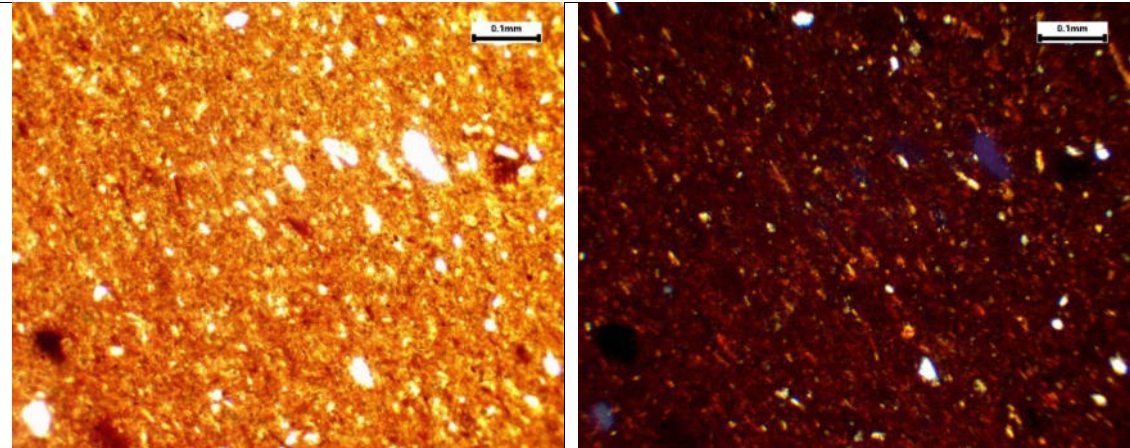
Type and size

macro/meso vughs, vesicles

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP47	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1										
MFEA Museum Number: K.11998.337											
Site: Majiayao											
Sherd photo	Fabric photo										
											
	Thin section scan										
Description											
MACROSCOPIC: Body sherd; slightly reduced core, oxidised margins; polished and painted black; max. wall thickness 6.5 mm.											
MICROSCOPIC: Non-plastic inclusions 10-20%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> • mica 50% • quartz 40% • feldspar 10% </td></tr></table>		Coarse 0%	Fine 100%	none	• mica 50% • quartz 40% • feldspar 10%						
Coarse 0%	Fine 100%										
none	• mica 50% • quartz 40% • feldspar 10%										
Matrix 75-85%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>moderate</td><td>brown/ dark brown</td><td>none</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	moderate	brown/ dark brown	none
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	moderate	brown/ dark brown	none							

Voids 3-5%

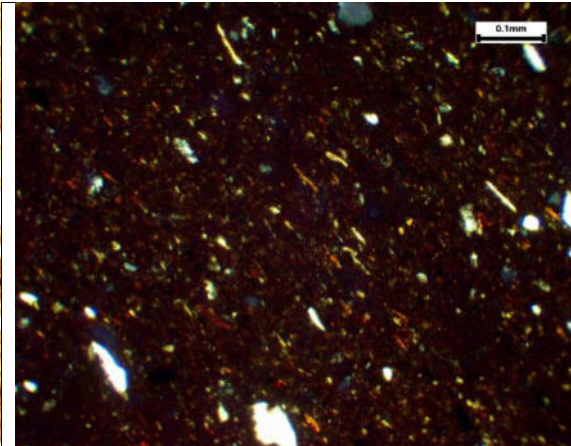
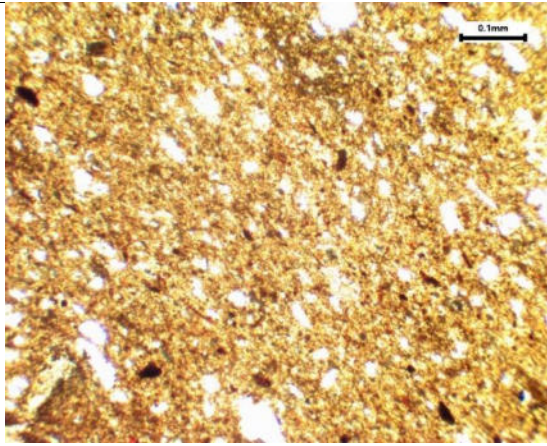
Type and size

macro/meso vesicles

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP48 MFEA Museum Number: K.11998:340 Site: Majiayao	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1
Sherd photo	Fabric photo
	
	Thin section scan 

Description

MACROSCOPIC:

Body sherd; fired in oxidising atmosphere; polished and painted brown(?) outside and inside; max. wall thickness 6 mm.

MICROSCOPIC:

Non-plastic inclusions 10-20%

Coarse 0%	Fine 100%
none	• mica 45% • quartz 40% • calcite 10% • feldspar 5%

Matrix 75-85%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	reddish brown/ golden brown	none

Voids 3-5%

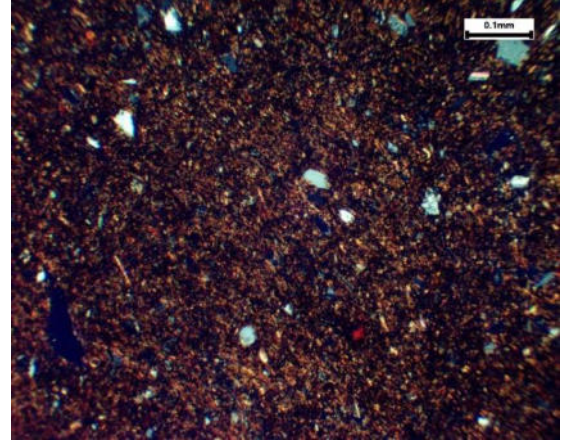
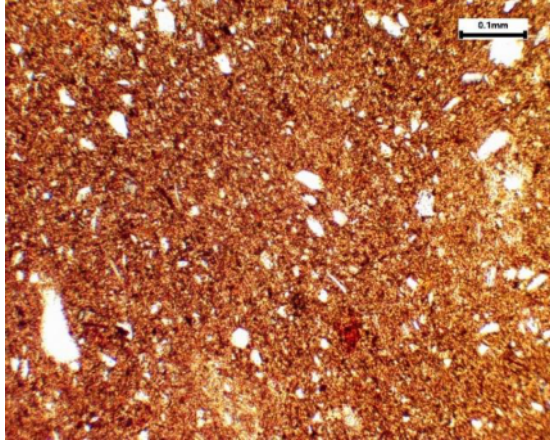
Type and size

meso vesicles, vughs

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP49 MFEA Museum Number: K.11998:345 Site: Majiayao	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1
Sherd photo	Fabric photo
	
	Thin section scan 
Description	
MACROSCOPIC:	
Body sherd; reduced core, oxidised margins; polished and painted brown(?); max. wall thickness 7.6 mm.	
MICROSCOPIC:	
Non-plastic inclusions 10-20%	
Coarse 0%	Fine 100%
none	• mica 50%
	• quartz 45%
	• feldspar 5%
Matrix 75-85%	
Homo-/heterogeneity	Sorting
homogeneous	well
Optical activity	moderate
Colour in PPL/ in XPL	brown/ reddish brown
Textural features/ comments	none

Voids 5%

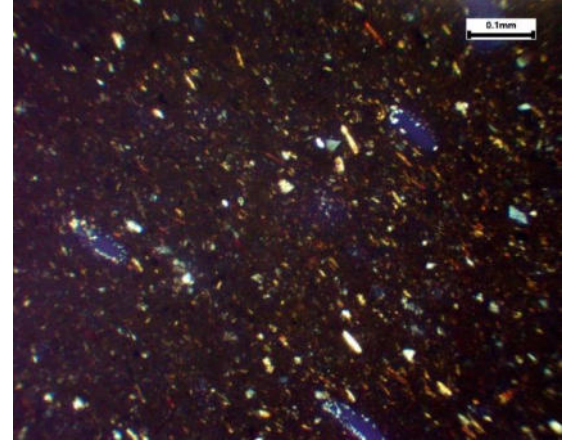
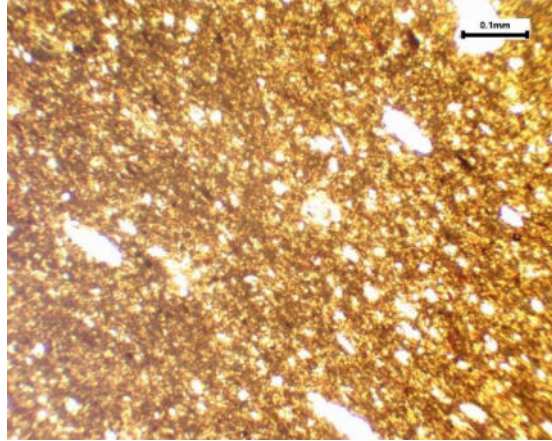
Type and size

meso/micro vughs, vesicles

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP50 MFEA Museum Number: K.11998:346 Site: Majiayao	Fabric group: 1; Fine, Mica-Quartz-Feldspar
Sherd photo	Fabric photo
	
	Thin section scan
	

Description

MACROSCOPIC:

Body sherd; reduced core, oxidised margins; polished and painted brown(?); max. wall thickness 8.3 mm.

MICROSCOPIC:

Non-plastic inclusions 20-30%

Coarse <0.1%

- quartz (eq, el; s-rnd; FSa-MSa) 100%

Fine 99.9%

- quartz 50%
- mica 40%
- feldspar 10%

Matrix 69-79%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	brown to dark grey/ dark grey to dark brown	none

Voids 1%

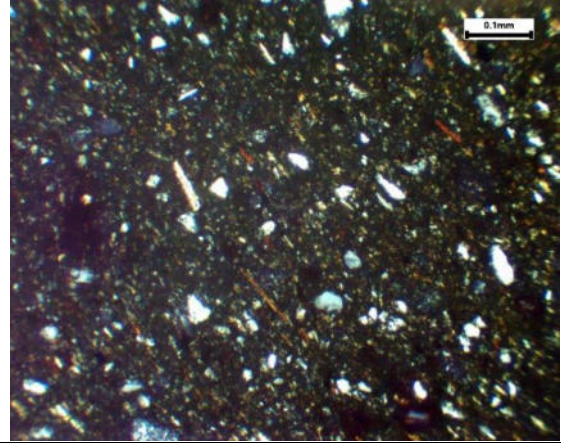
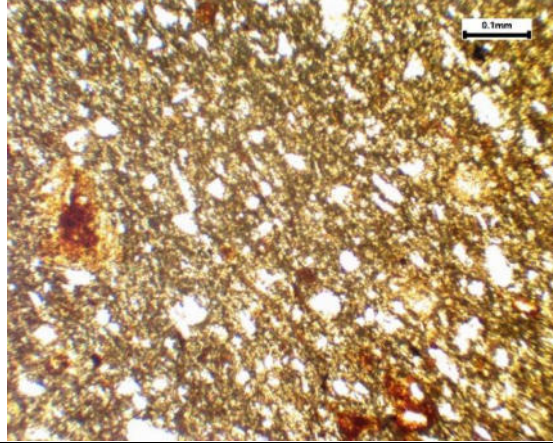
Type and size

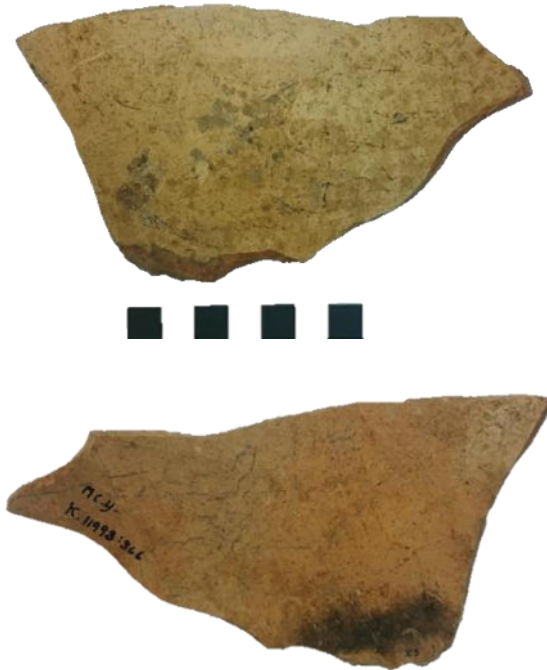
macro/meso vughs

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)

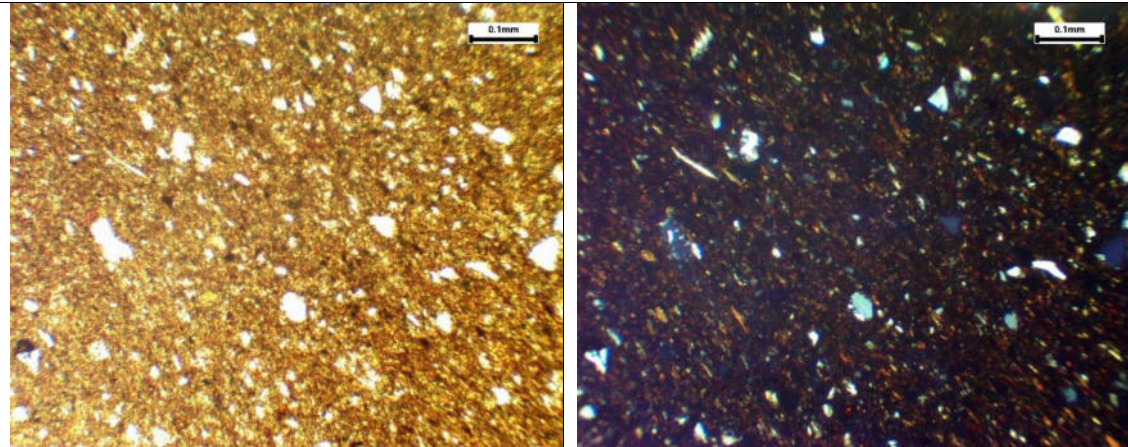


Sample code: CNP51		Fabric group: 1; Fine, Mica-Quartz-Feldspar		
MFEA Museum Number: K.11998:366				
Site: Majiayao				
Sherd photo		Fabric photo		
				
		Thin section scan		
				
Description				
MACROSCOPIC:				
Body sherd; fired in oxidising atmosphere; plain; max. wall thickness 6 mm.				
MICROSCOPIC:				
Non-plastic inclusions 20%				
Coarse 0%		Fine 100%		
none		• mica 50% • quartz 40% • feldspar 10%		
Matrix 70-75%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	brown/ golden brown	rare fine shell fragments?

Voids 5-10%

Type and size	Distinct characteristics
macro/meso vesicles, vughs	Some voids have secondary calcite accumulation on margins, elongated void left by a shell fragment and filled with secondary calcite?

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP52 MFEA Museum Number: K.11998:377 Site: Majiayao	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments
Sherd photo	Fabric photo
	
	Thin section scan
	

Description

MACROSCOPIC:

Rim sherd; fired in oxidising atmosphere; decorated with diagonal cord impression; max. wall thickness 11.7 mm.

MICROSCOPIC:

Non-plastic inclusions 30%

Coarse 40%

- quartz (eq, el; ang – s-rnd; FSa-CSa) 40%
- plagioclase feldspar (euhd, eq; s-ang; FSa-CSa) 30%
- granitic/ metamorphic rock fragments – combination of quartz, plagioclase feldspar, biotite and/ or muscovite and/ or hornblende (eq; ang; CSa-FGr) 20 %
- micritic calcite (eq; rnd; MSa) 5%
- biotite (lamellae; MSa-CSa) 4%
- hornblende (eq; s-ang; MSa) 1%

Fine 60%

- micritic calcite 45%
- quartz 40%
- mica 10%
- feldspar 5%

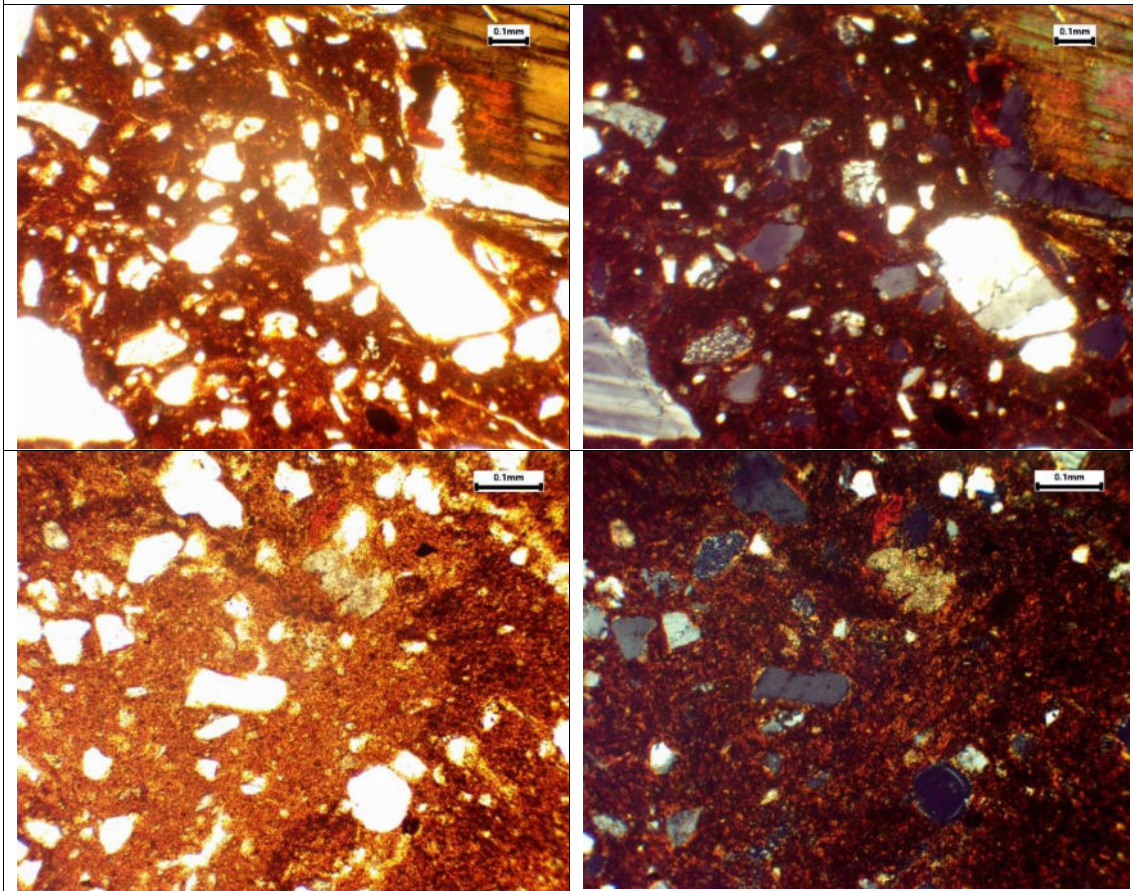
Matrix 60%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	reddish brown/ gold brown	none

Voids 10%

Type and size	Distinct characteristics
macro/meso channels, vesicles, planar voids	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



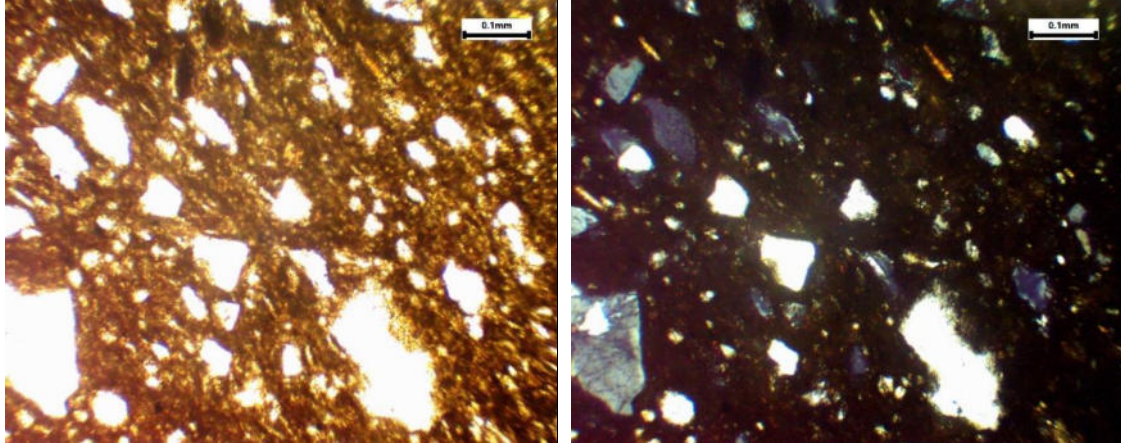
Sample code: CNP53 MFEA Museum Number: K.11999:579 Site: Majiayao	Fabric group: 3; Fine, Quartz dominant										
Sherd photo	Fabric photo										
	 Thin section scan 										
Description											
MACROSCOPIC: Rim and upper body sherd; reduced core, oxidised margins; polished, painted black and appliqué; max. wall thickness 4.6 mm.											
MICROSCOPIC: Non-plastic inclusions 20-30%											
<table><tr><td colspan="2">Coarse 3%</td><td colspan="2">Fine 97%</td></tr><tr><td colspan="2"> - quartz (eq, el; ang – s-rnd; FSa-MSa) 80% - plagioclase feldspar (eq, el; s-rnd; FSa) 10% - siltstone (eq; s-rnd; CSa) 10% </td><td colspan="2"> - quartz 60% - mica 30% - feldspar 10% </td></tr></table>		Coarse 3%		Fine 97%		- quartz (eq, el; ang – s-rnd; FSa-MSa) 80% - plagioclase feldspar (eq, el; s-rnd; FSa) 10% - siltstone (eq; s-rnd; CSa) 10%		- quartz 60% - mica 30% - feldspar 10%			
Coarse 3%		Fine 97%									
- quartz (eq, el; ang – s-rnd; FSa-MSa) 80% - plagioclase feldspar (eq, el; s-rnd; FSa) 10% - siltstone (eq; s-rnd; CSa) 10%		- quartz 60% - mica 30% - feldspar 10%									
Matrix 60-70%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>poor</td><td>moderate</td><td>grey to red brown/ dark</td><td>secondary calcite dispersed over the sample area?</td></tr></table>	Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	poor	moderate	grey to red brown/ dark	secondary calcite dispersed over the sample area?	
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	poor	moderate	grey to red brown/ dark	secondary calcite dispersed over the sample area?							

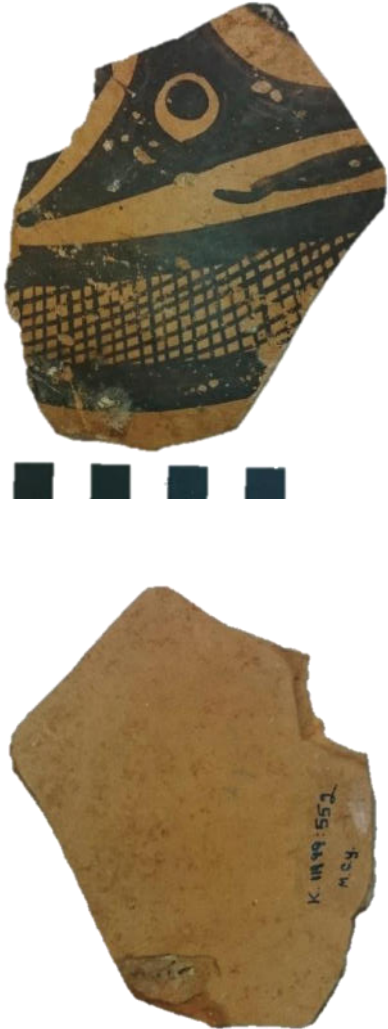
red brown to
dark grey

Voids 10%

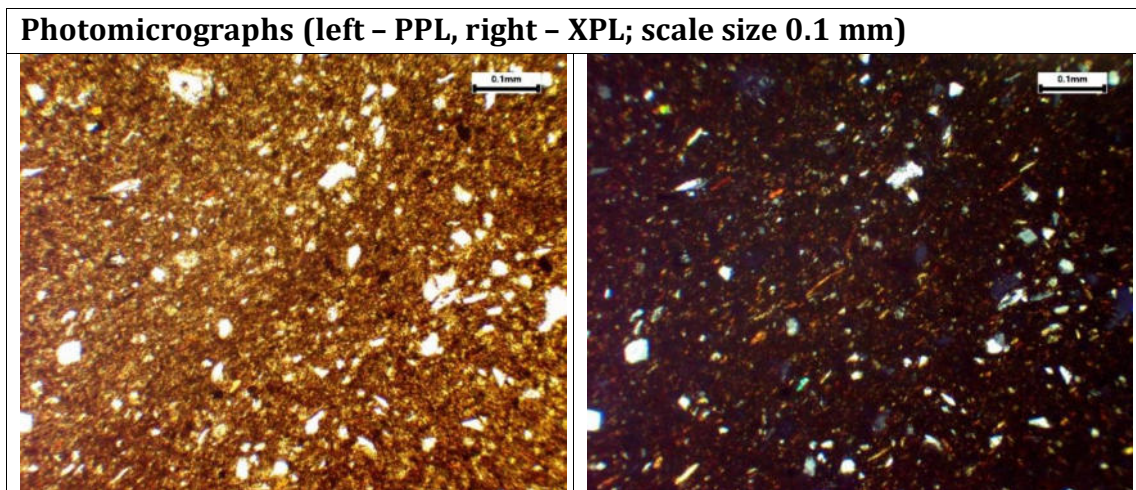
Type and size	Distinct characteristics
mega channels, macro- vughs, planar voids	Are the mega-channels in the thickest part in the sample from drying or shaping?

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



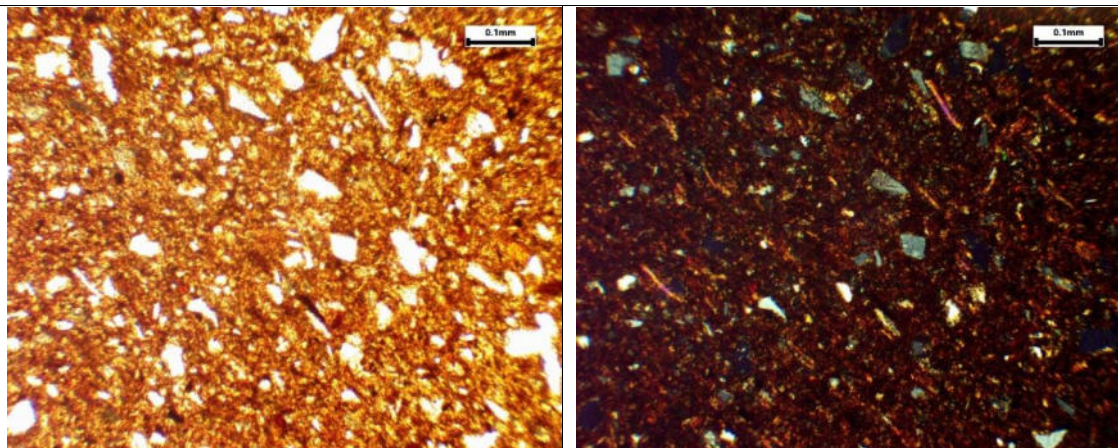
Sample code: CNP54 MFEA Museum Number: K.11999:552 Site: Majiayao	Fabric group: 1; Fine, Mica-Quartz - Feldspar
Sherd photo	Fabric photo
	
	Thin section scan 
Description MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 4.8 mm. MICROSCOPIC: Non-plastic inclusions 20%	
Coarse 0%	Fine 100%
none	- quartz 50% - mica 40% - feldspar 10%

Matrix 79%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	moderate	dark brown/ dark brown	none
Voids 1%				
Type and size			Distinct characteristics	
macro/meso vughs, vesicles, channels			none	



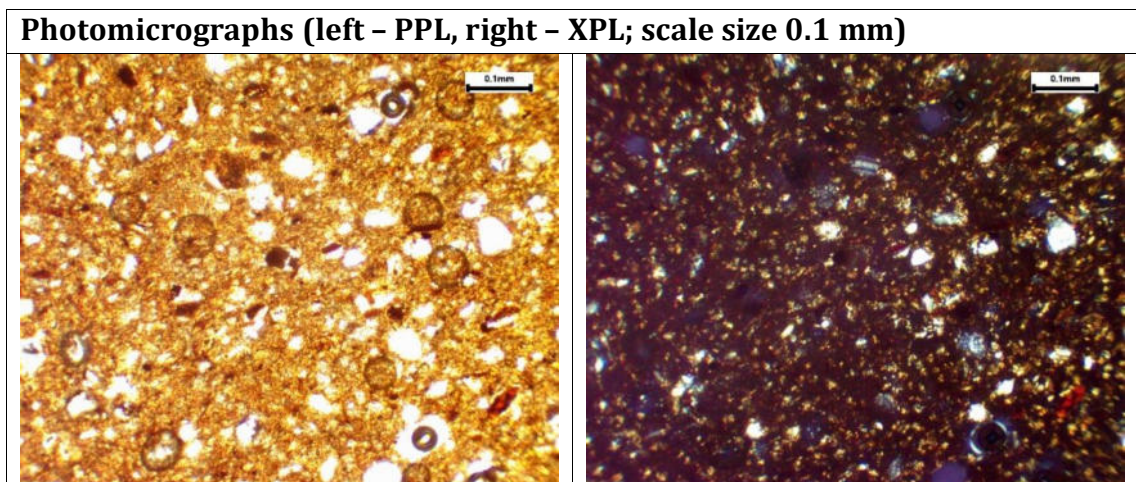
Sample code: CNP55 MFEA Museum Number: K.11999:554 Site: Majiayao	Fabric group: 1; Fine, Mica-Quartz-Feldspar										
Sherd photo	Fabric photo										
											
Description											
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 5 mm.											
MICROSCOPIC: Non-plastic inclusions 20-30%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> • mica 50% • quartz 40% • feldspar 10% </td></tr></table>		Coarse 0%	Fine 100%	none	• mica 50% • quartz 40% • feldspar 10%						
Coarse 0%	Fine 100%										
none	• mica 50% • quartz 40% • feldspar 10%										
Matrix 65-75%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>active</td><td>brown/ golden brown</td><td>none</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	active	brown/ golden brown	none
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	active	brown/ golden brown	none							
Voids 3-5%											
<table><tr><td>Type and size</td><td>Distinct characteristics</td></tr><tr><td>macro/meso vughs, vesicles</td><td>none</td></tr></table>		Type and size	Distinct characteristics	macro/meso vughs, vesicles	none						
Type and size	Distinct characteristics										
macro/meso vughs, vesicles	none										

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP56 MFEA Museum Number: K.11999:556 Site: Majiayao	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1
Sherd photo	Fabric photo
	
	Thin section scan 
Description MACROSCOPIC: Rim and upper body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 5.7 mm. MICROSCOPIC: Non-plastic inclusions 5-10%	
Coarse 0% none	Fine 100% - quartz 50% - mica 45% - feldspar 5%

Matrix 87-92%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	brown/ golden brown	dispersed secondary calcite throughout the sample area?
Voids 3%				
Type and size	Distinct characteristics			
meso vesicles	none			



Sample code: CNP57 MFEA Museum Number: K.11999:582 Site: Majiayao	Fabric group: 1; Fine, Mica-Quartz-Feldspar				
Sherd photo	Fabric photo				
					
	Thin section scan				
					
Description					
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 6.7 mm.					
MICROSCOPIC: Non-plastic inclusions 30%					
Coarse 5%		Fine 95%			
- quartz (eq; s-rnd – rnd; FSa-CSa) 60% - siltstone/ sandstone? (eq; rnd; MSa-CSa) 25% - volcanic glass with mineral inclusions or vitrified grog? (eq; rnd; MSa) 15%		- quartz 45% - mica 40% - feldspar 10% - calcite 5%			
Matrix 67%					
Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features	
homogeneous	moderate	active	red brown/ golden brown	none	

Voids 3%

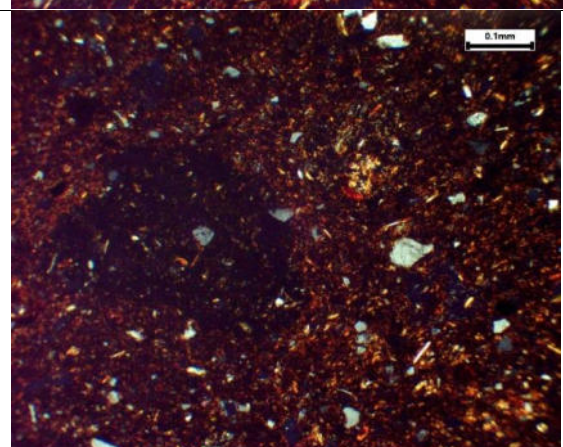
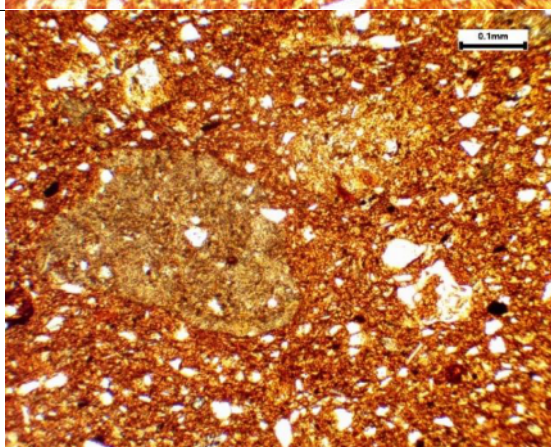
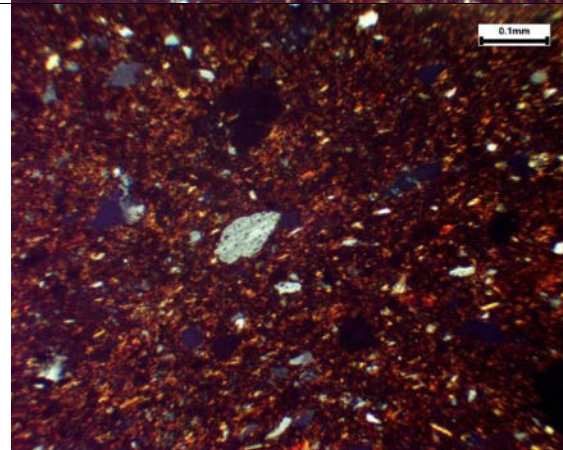
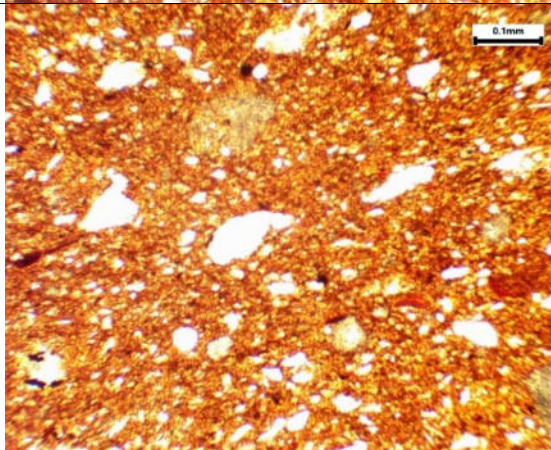
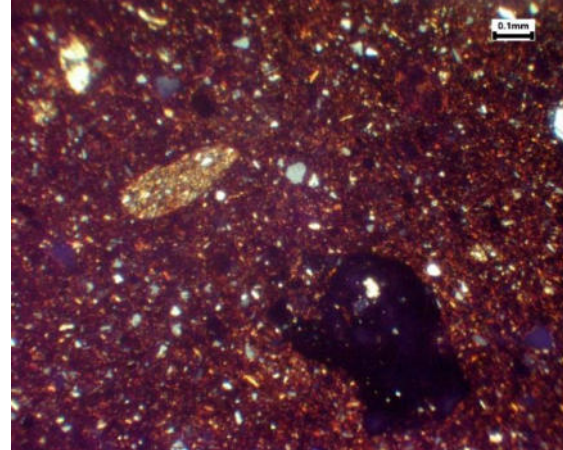
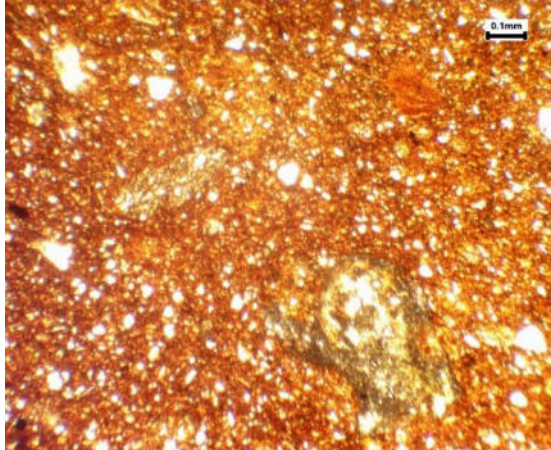
Type and size

macro/meso vughs, vesicles

Distinct characteristics

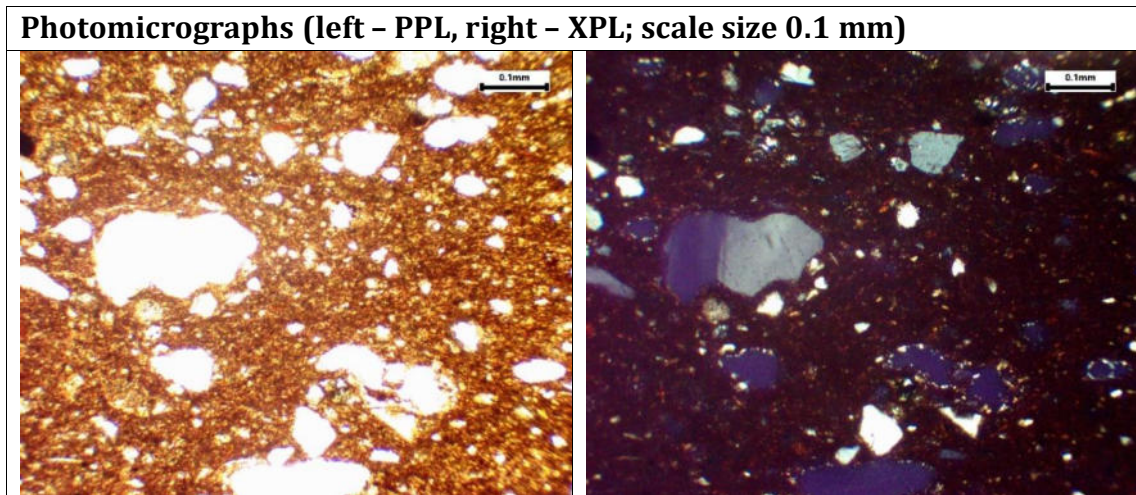
some voids have vitrified margins

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



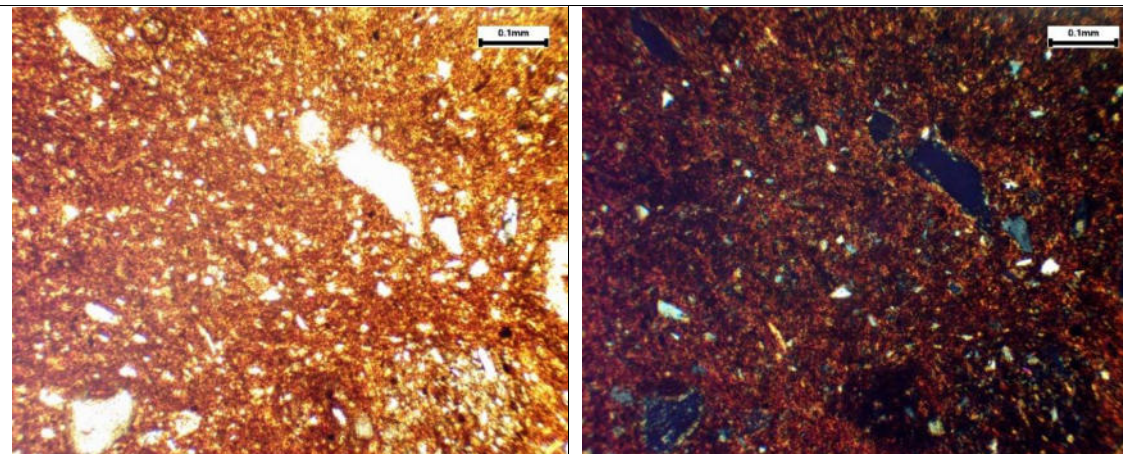
Sample code: CNP58 MFEA Museum Number: K.11999:593 Site: Majiayao	Fabric group: 7; Semi-coarse, Quartz dominant				
Sherd photo	Fabric photo				
					
	Thin section scan				
Description					
MACROSCOPIC: Rim and upper body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 8.6 mm.					
MICROSCOPIC: Non-plastic inclusions 20%					
<table><tr><th>Coarse 10%</th><th>Fine 90%</th></tr><tr><td> - quartz (eq, el; ang – s-rnd; FSa-CSa) 94% - micritic calcite (eq; s-ang – rnd; FSa-CSa) 5% - sedimentary rock fragments – siltstone (eq; rnd; MSa) 1% </td><td> - mica 50% - quartz 40% - feldspar 10% </td></tr></table>		Coarse 10%	Fine 90%	- quartz (eq, el; ang – s-rnd; FSa-CSa) 94% - micritic calcite (eq; s-ang – rnd; FSa-CSa) 5% - sedimentary rock fragments – siltstone (eq; rnd; MSa) 1%	- mica 50% - quartz 40% - feldspar 10%
Coarse 10%	Fine 90%				
- quartz (eq, el; ang – s-rnd; FSa-CSa) 94% - micritic calcite (eq; s-ang – rnd; FSa-CSa) 5% - sedimentary rock fragments – siltstone (eq; rnd; MSa) 1%	- mica 50% - quartz 40% - feldspar 10%				

Matrix 75%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	active	brown to reddish brown / dark brown and dark reddish brown	none
Voids 3-5%				
Type and size			Distinct characteristics	
macro/meso vesicles, channels			mostly of meso size	



Sample code: CNP59	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1										
MFEA Museum Number: K.11999:598											
Site: Majiayao											
Sherd photo	Fabric photo										
											
	Thin section scan										
Description											
MACROSCOPIC: Rim sherd; fired in oxidising atmosphere; polished, painted black with appliqué; max. wall thickness 5 mm.											
MICROSCOPIC: Non-plastic inclusions 10%											
<table><tr><td colspan="2">Coarse 0.5%</td><td colspan="2">Fine 99.5%</td></tr><tr><td colspan="2"> - volcanic glass? (eq; rnd; FSa-MSa) 35% - quartz (eq; s-rnd; FSa-MSa) 25% - siltstone (eq; rnd; MSa) 25% - plagioclase feldspar (eq; ang; MSa) 5% </td><td colspan="2"> - quartz 50% - mica 49.5% - feldspar 0.5% </td></tr></table>		Coarse 0.5%		Fine 99.5%		- volcanic glass? (eq; rnd; FSa-MSa) 35% - quartz (eq; s-rnd; FSa-MSa) 25% - siltstone (eq; rnd; MSa) 25% - plagioclase feldspar (eq; ang; MSa) 5%		- quartz 50% - mica 49.5% - feldspar 0.5%			
Coarse 0.5%		Fine 99.5%									
- volcanic glass? (eq; rnd; FSa-MSa) 35% - quartz (eq; s-rnd; FSa-MSa) 25% - siltstone (eq; rnd; MSa) 25% - plagioclase feldspar (eq; ang; MSa) 5%		- quartz 50% - mica 49.5% - feldspar 0.5%									
Matrix 85%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>active</td><td>red brown/ golden red brown</td><td>active matrix with vitrified spots – volcanic glass?</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	active	red brown/ golden red brown	active matrix with vitrified spots – volcanic glass?
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	active	red brown/ golden red brown	active matrix with vitrified spots – volcanic glass?							
Voids 5%											
<table><tr><td>Type and size</td><td>Distinct characteristics</td></tr><tr><td>macro/meso vughs, channels</td><td>none</td></tr></table>		Type and size	Distinct characteristics	macro/meso vughs, channels	none						
Type and size	Distinct characteristics										
macro/meso vughs, channels	none										

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP60 MFEA Museum Number: K.12001:704 Site: Majiayao	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Rim sherd; fired in oxidising atmosphere; polished and painted black outside and inside; max. wall thickness 3.5 mm. MICROSCOPIC: Non-plastic inclusions 10-15% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 60% • quartz 40% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 60% • quartz 40%
Coarse 0%	Fine 100%				
none	• mica 60% • quartz 40%				

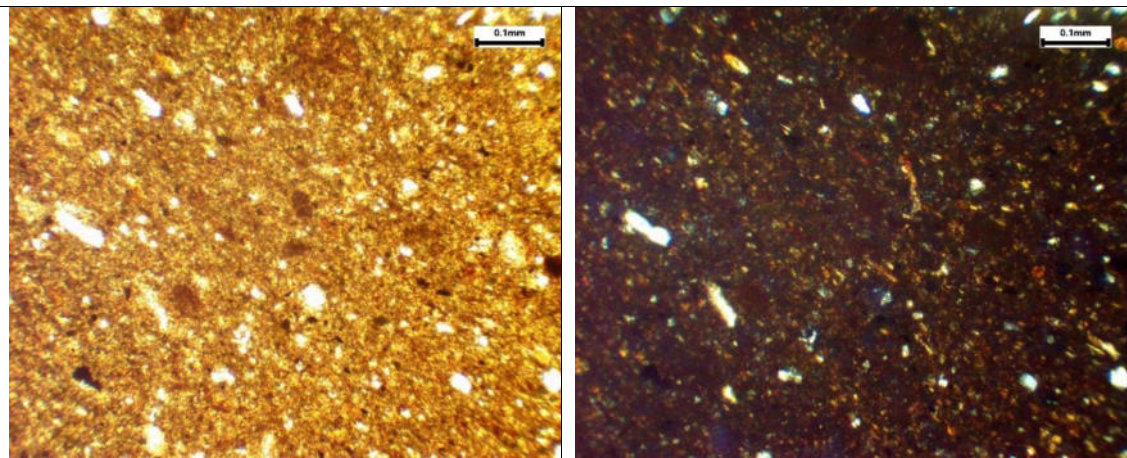
Matrix 75-86%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	brown/ golden brown	From the same vessel as CNP61?

Voids 3-5%

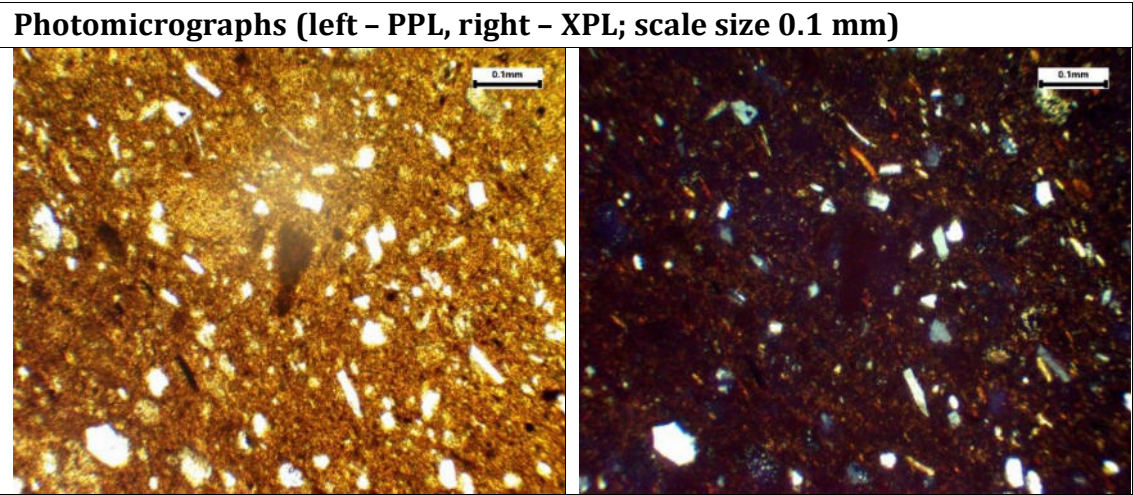
Type and size	Distinct characteristics
macro/meso vughs, vesicles	rare voids are filled with secondary calcite

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



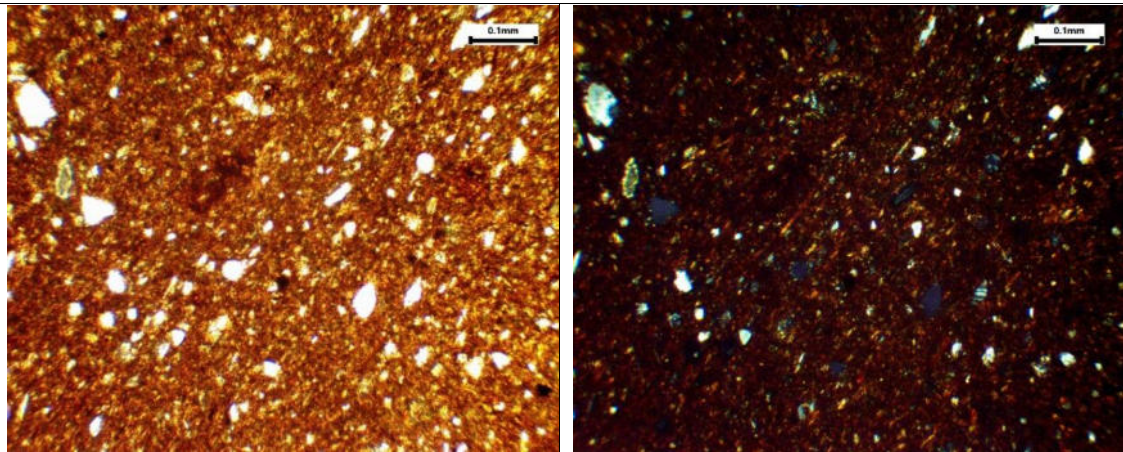
Sample code: CNP61 MFEA Museum Number: K.12001:711 Site: Majiayao	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1										
Sherd photo	Fabric photo										
											
	Thin section scan 										
Description											
MACROSCOPIC: Body sherd; reduced core, oxidised margins; polished and painted black outside and inside; max. wall thickness 4.9 mm.											
MICROSCOPIC: Non-plastic inclusions 10-15%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> - quartz 50% - mica 45% - feldspar 5% </td></tr></table>		Coarse 0%	Fine 100%	none	- quartz 50% - mica 45% - feldspar 5%						
Coarse 0%	Fine 100%										
none	- quartz 50% - mica 45% - feldspar 5%										
Matrix 70-80%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous?</td><td>well</td><td>moderate</td><td>brown/ dark brown</td><td>Same vessel as CNP60? MSa clay pellets, haematite or mudstone</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous?	well	moderate	brown/ dark brown	Same vessel as CNP60? MSa clay pellets, haematite or mudstone
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous?	well	moderate	brown/ dark brown	Same vessel as CNP60? MSa clay pellets, haematite or mudstone							

	or a little bit of all? >10% of the matrix
Voids 5-10%	
Type and size	Distinct characteristics
macro/meso vughs, vesicles, channels	none



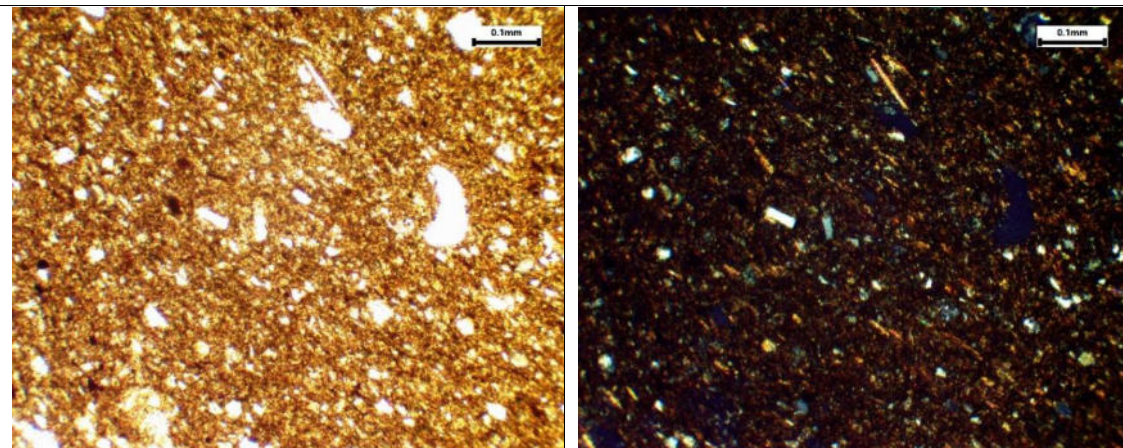
Sample code: CNP62			Fabric group: 1; Fine, Mica-Quartz - Feldspar		
MFEA Museum Number: K.12001:726					
Site: Majiayao					
Sherd photo			Fabric photo		
					
			Thin section scan		
					
Description					
MACROSCOPIC:					
Rim sherd; uneven oxidation: buff yellow inner core, red outer core, buff yellow margins; polished and painted in reddish brown(?) outside and inside; max. wall thickness 7.3, rim 9 mm.					
MICROSCOPIC:					
Non-plastic inclusions 20-30%					
Coarse <0.1%		Fine 99.9%			
volcanic glass? (eq; rnd; MSa) one inclusion		- quartz 45% - mica 45% - feldspar (plagioclase/ microcline) 10%			
Matrix 65-75%					
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	
homogeneous	well	active	brown/ dark golden brown	none	
Voids 3-5%					
Type and size		Distinct characteristics			
meso vughs, vesicles		almost all the voids have secondary calcite accumulations			

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP63		Fabric group: 1; Fine, Mica-Quartz-Feldspar												
MFEA Museum Number: K.12001:736														
Site: Majiayao														
Sherd photo		Fabric photo												
														
		Thin section scan												
														
Description														
MACROSCOPIC: Rim sherd; fired in oxidising atmosphere, yellow buff core, red margins; polished and painted black outside and inside; max. wall thickness 7 mm, rim 9 mm.														
MICROSCOPIC: Non-plastic inclusions 20%														
<table><tr><td colspan="2">Coarse 0%</td><td colspan="3">Fine 100%</td></tr><tr><td colspan="2">none</td><td colspan="3"> - quartz 35% - mica 30% - micritic calcite(?) 20% - feldspar 10% </td></tr></table>					Coarse 0%		Fine 100%			none		- quartz 35% - mica 30% - micritic calcite(?) 20% - feldspar 10%		
Coarse 0%		Fine 100%												
none		- quartz 35% - mica 30% - micritic calcite(?) 20% - feldspar 10%												
Matrix 75%														
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>active</td><td>brown / gold yellow brown</td><td>none</td></tr></table>					Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	active	brown / gold yellow brown	none
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments										
homogeneous	well	active	brown / gold yellow brown	none										
Voids 5%														
<table><tr><td>Type and size</td><td colspan="4">Distinct characteristics</td></tr><tr><td>one mega vugh; macro/meso vesicles, channels, vughs</td><td colspan="4">the mega vugh is left from folding the clay to shape the rim; majority of the meso-voids in the middle are filled with secondary calcite</td></tr></table>					Type and size	Distinct characteristics				one mega vugh; macro/meso vesicles, channels, vughs	the mega vugh is left from folding the clay to shape the rim; majority of the meso-voids in the middle are filled with secondary calcite			
Type and size	Distinct characteristics													
one mega vugh; macro/meso vesicles, channels, vughs	the mega vugh is left from folding the clay to shape the rim; majority of the meso-voids in the middle are filled with secondary calcite													

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP64 MFEA Museum Number: K.12001:1231 Site: Majiayao	Fabric group: 3; Fine, Quartz dominant										
Sherd photo	Fabric photo										
											
	Thin section scan										
											
Description											
MACROSCOPIC: Rim and neck sherd; reduced core, oxidised margins; polished and painted black; max. wall thickness 5 mm.											
MICROSCOPIC: Non-plastic inclusions 30%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> - quartz 60% - mica 30% - feldspar 10% </td></tr></table>		Coarse 0%	Fine 100%	none	- quartz 60% - mica 30% - feldspar 10%						
Coarse 0%	Fine 100%										
none	- quartz 60% - mica 30% - feldspar 10%										
Matrix 67%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>moderate</td><td>brown/ dark grey</td><td>none</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	moderate	brown/ dark grey	none
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	moderate	brown/ dark grey	none							

Voids 1-3%

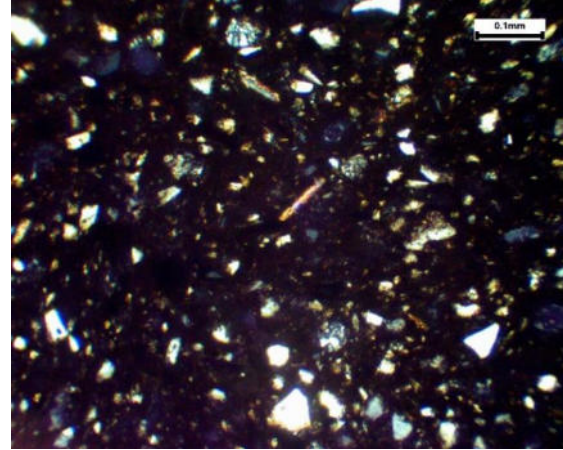
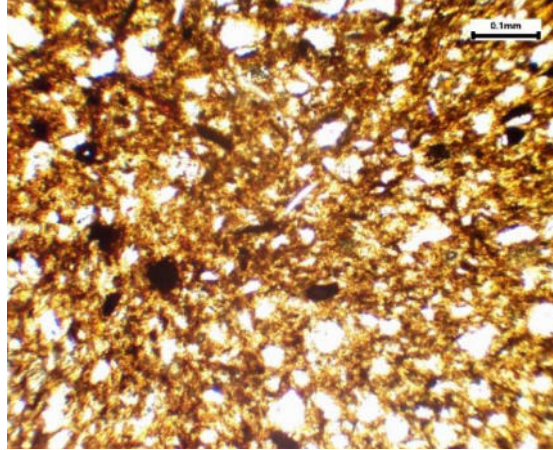
Type and size

macro/meso vesicles, vughs

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP65		Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1		
MFEA Museum Number: K.12001:1244				
Site: Majiayao				
Sherd photo		Fabric photo		
				
		Thin section scan		
				
Description				
MACROSCOPIC:				
Rim sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 7.2 mm.				
MICROSCOPIC:				
Non-plastic inclusions 20%				
Coarse 0%		Fine 100%		
none		- quartz 65% - mica 30% - feldspar 5%		
Matrix 75-77%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	grey brown/ dark grey brown	none

Voids 3-5%

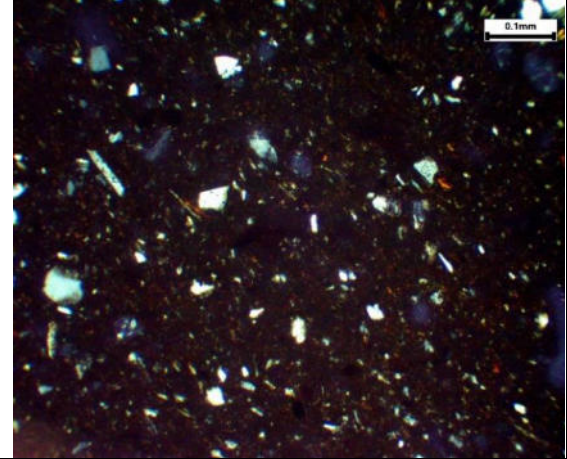
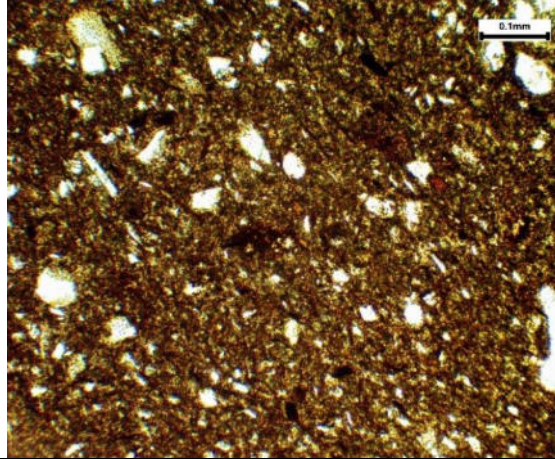
Type and size

meso vesicles, vughs

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP66 MFEA Museum Number: K.12001:1259 Site: Majiayao	Fabric group: 1; Fine, Mica-Quartz-Feldspar				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC: Neck sherd; fired in oxidising atmosphere, uneven oxidation: buff yellow inner core, red outer core, buff yellow margins; polished and painted black; max. wall thickness 9 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 50% • quartz 40% • feldspar 10% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 50% • quartz 40% • feldspar 10%
Coarse 0%	Fine 100%				
none	• mica 50% • quartz 40% • feldspar 10%				

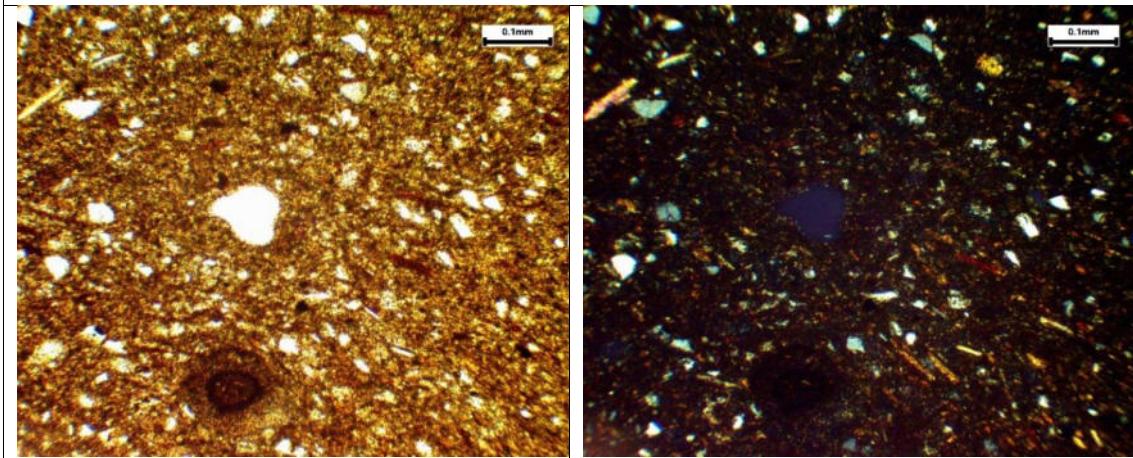
Matrix 75%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	brown/ golden brown	none

Voids 3-5%

Type and size	Distinct characteristics
macro/meso vesicles, vughs	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP67 MFEA Museum Number: K.12001:1264 Site: Majiayao	Fabric group: 1; Fine, Mica-Quartz-Feldspar				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Rim and neck sherd; reduced core, only the outer very thin margin is oxidised; polished and painted black; max. wall thickness 6.5 mm. MICROSCOPIC: Non-plastic inclusions 30% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 55% • quartz 40% • feldspar 5% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 55% • quartz 40% • feldspar 5%
Coarse 0%	Fine 100%				
none	• mica 55% • quartz 40% • feldspar 5%				

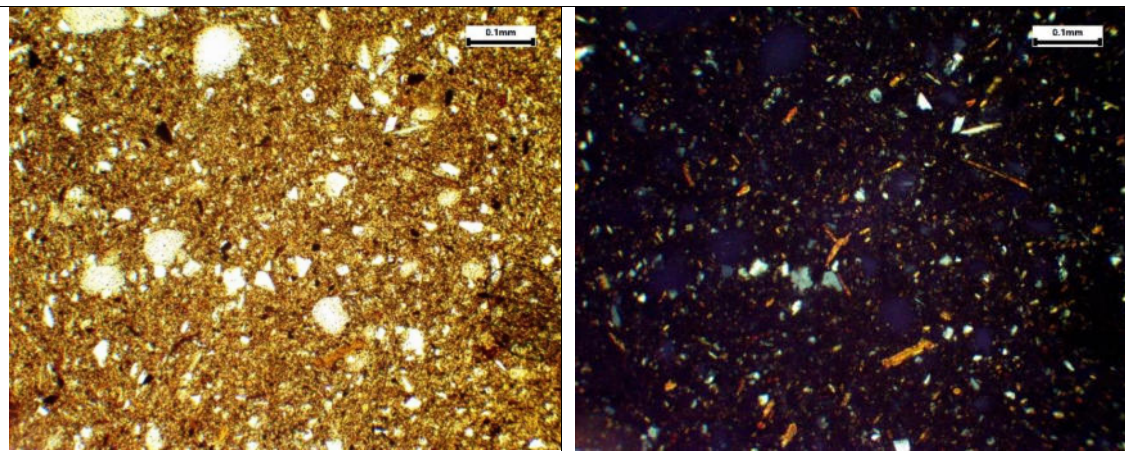
Matrix 65%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	well	active	brown / dark grey-brown	not well mixed

Voids 3-5%

Type and size	Distinct characteristics
macro/meso vesicles	Some voids have secondary calcite accumulations along the margins.

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP68		Fabric group: 1; Fine, Mica-Quartz-Feldspar		
MFEA Museum Number: K.12001:1278				
Site: Majiayao				
Sherd photo		Fabric photo		
		Thin section scan		
Description				
MACROSCOPIC: Neck and shoulder sherd; fired in oxidising atmosphere, uneven oxidation: buff yellow inner core, red outer core, buff yellow margins; polished and painted black; max. wall thickness 10 mm.				
MICROSCOPIC: Non-plastic inclusions 20-30%				
Coarse 0% none		Fine 100% • mica 50% • quartz 50%		
Matrix 65-75%				
Homo-/heterogeneity homogeneous	Sorting well	Optical activity active	Colour in PPL/ in XPL brown/ golden dark brown	Textural features/ comments dispersed secondary calcite? calcite on the inner vessel part of the sample

Voids 3-5%

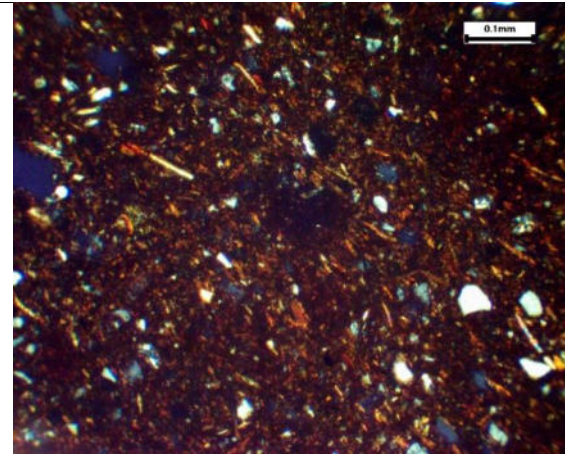
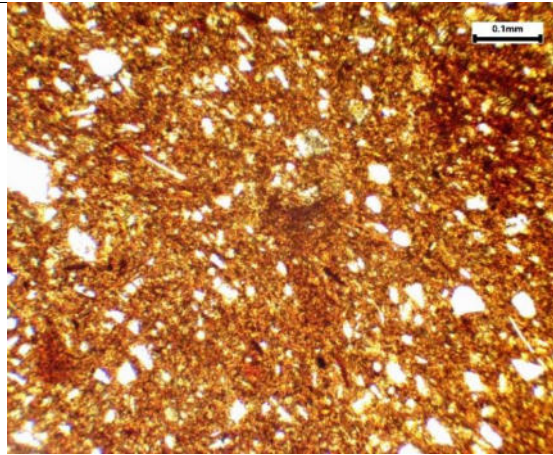
Type and size

meso vesicles

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP69 MFEA Museum Number: K.12001:1282 Site: Majiayao	Fabric group: 2A; Fine Mica-Quartz-Feldspar with lesser inclusion frequency than Fabric 1				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC: Neck sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 7.5 mm.					
MICROSCOPIC: Non-plastic inclusions 15%					
<table> <tr> <td>Coarse 0%</td><td>Fine 100%</td></tr> <tr> <td>none</td><td> • mica 75% • quartz 20% • feldspar 5% </td></tr> </table>		Coarse 0%	Fine 100%	none	• mica 75% • quartz 20% • feldspar 5%
Coarse 0%	Fine 100%				
none	• mica 75% • quartz 20% • feldspar 5%				

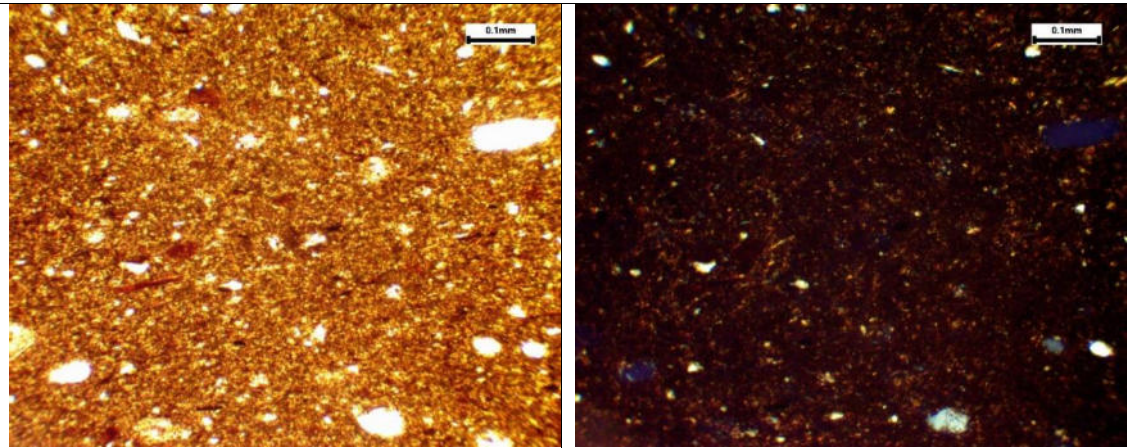
Matrix 80-82%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	brown/ golden brown	FSa-MSa haematite or clay pellets? >10% of the matrix; fine fraction is of MSi size

Voids 3-5%

Type and size	Distinct characteristics
macro/meso vughs, vesicles	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP70		Fabric group: 1; Fine, Mica-Quartz-Feldspar		
MFEA Museum Number: K.12001:1280				
Site: Majiayao				
Sherd photo		Fabric photo		
				
		Thin section scan		
				
Description				
MACROSCOPIC:				
Neck sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 10 mm.				
MICROSCOPIC:				
Non-plastic inclusions 20%				
Coarse 0%		Fine 100%		
none		• mica 45% • quartz 40% • feldspar 10% • calcite? 5%		
Matrix 77%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	brown/ golden brown	MSa clay pellets <1% of the matrix

Voids 1-3%

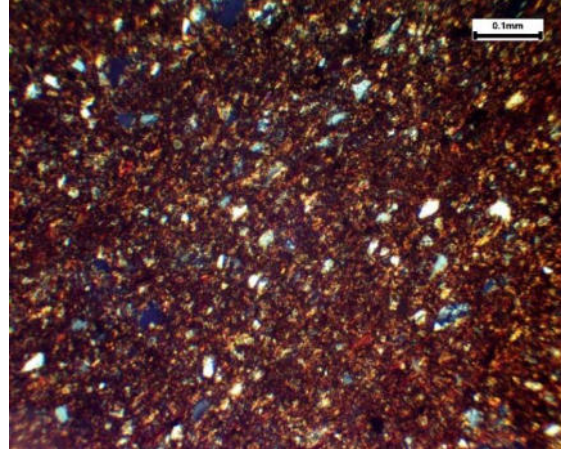
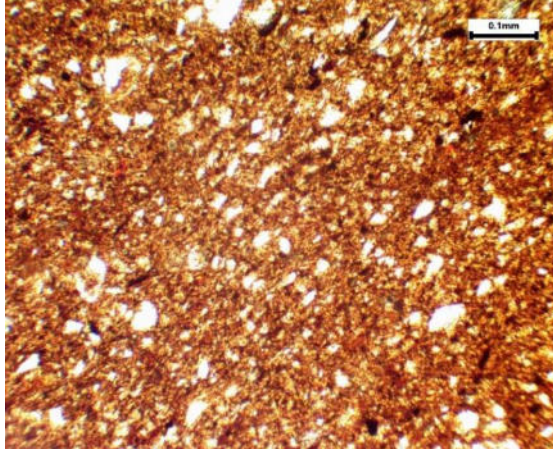
Type and size

macro/meso/micro vesicles, vughs

Distinct characteristics

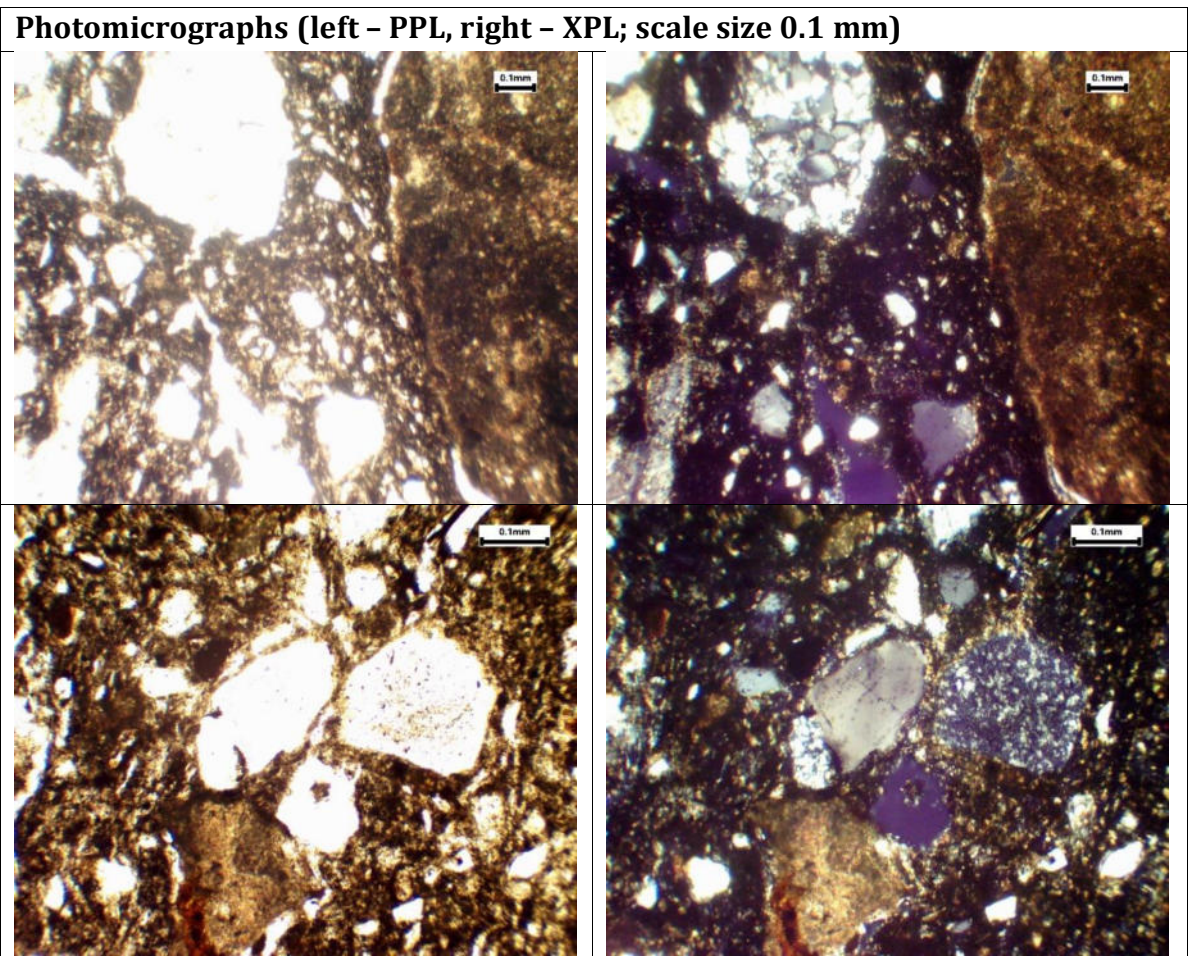
none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



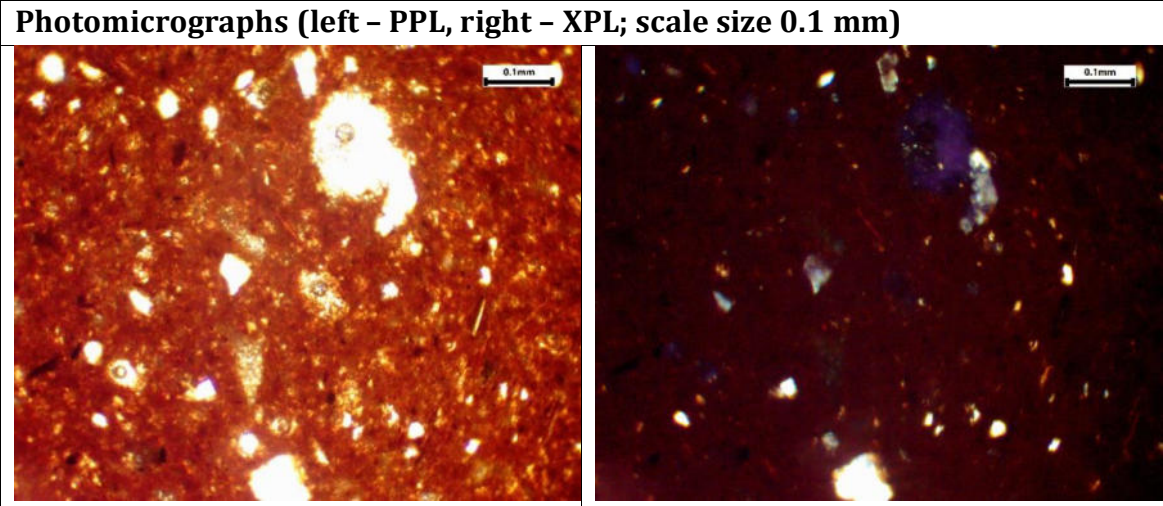
Sample code: CNP71 MFEA Museum Number: K.11998:40 Site: Majiayao	Fabric group: 5A; Coarse, Calcite and Quartz with Sedimentary rock fragments				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC: Rim sherd; fired in reducing atmosphere; decorated with cross-cord impression and appliqué with diagonal cord impression; max. wall thickness 15 mm. MICROSCOPIC: Non-plastic inclusions 40% <table border="1"> <thead> <tr> <th>Coarse 40%</th><th>Fine 60%</th></tr> </thead> <tbody> <tr> <td> - quartz (eq, el; ang – rnd; FSa-CSa) type 35% - micrite (eq, el; s-ang – s-rnd FSa-FGr) 30% - sedimentary rock fragments – siltstone, sandstone (eq; s-rnd; MSa-CSa) 15% - plagioclase and microcline feldspar (eq; ang s-rnd; FSa-CSa) 10% - metamorphic rock fragments (eq; s-ang; CSa) 6% - volcanic rock fragment – acicular feldspar in black </td><td> - calcite 45% - quartz 40% - feldspar 10% - mica 5% </td></tr> </tbody> </table>		Coarse 40%	Fine 60%	- quartz (eq, el; ang – rnd; FSa-CSa) type 35% - micrite (eq, el; s-ang – s-rnd FSa-FGr) 30% - sedimentary rock fragments – siltstone, sandstone (eq; s-rnd; MSa-CSa) 15% - plagioclase and microcline feldspar (eq; ang s-rnd; FSa-CSa) 10% - metamorphic rock fragments (eq; s-ang; CSa) 6% - volcanic rock fragment – acicular feldspar in black	- calcite 45% - quartz 40% - feldspar 10% - mica 5%
Coarse 40%	Fine 60%				
- quartz (eq, el; ang – rnd; FSa-CSa) type 35% - micrite (eq, el; s-ang – s-rnd FSa-FGr) 30% - sedimentary rock fragments – siltstone, sandstone (eq; s-rnd; MSa-CSa) 15% - plagioclase and microcline feldspar (eq; ang s-rnd; FSa-CSa) 10% - metamorphic rock fragments (eq; s-ang; CSa) 6% - volcanic rock fragment – acicular feldspar in black	- calcite 45% - quartz 40% - feldspar 10% - mica 5%				

opaque matrix (eq; rnd; CSa) 2%				
chert (eq; s-ang; MSa) 2%				
Matrix 50-55%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	inactive	dark grey / dark grey	none
Voids 5-10%				
Type and size			Distinct characteristics	
mega/ macro vughs, channels, planar voids			none	



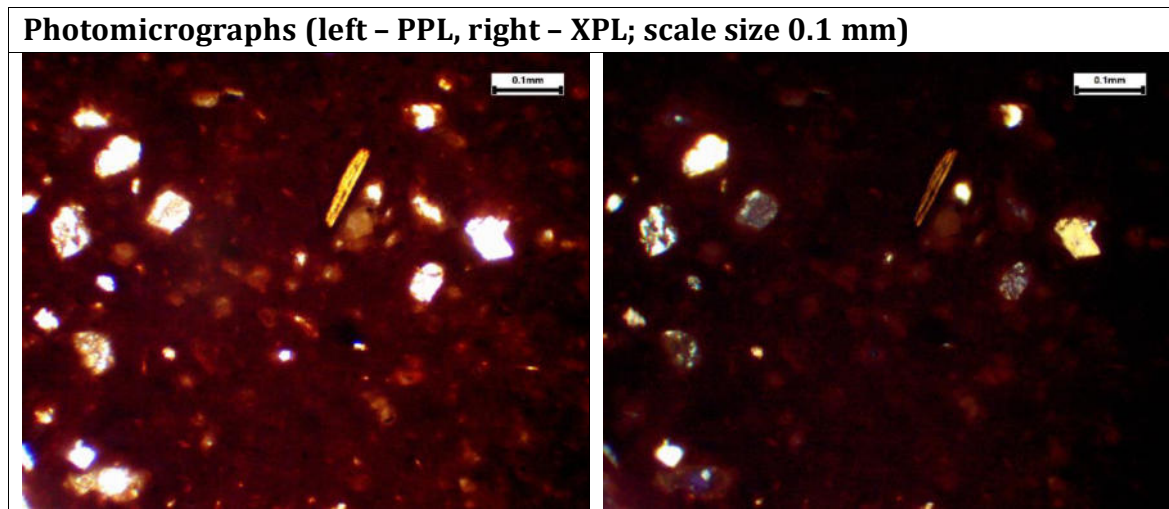
Sample code: CNP72 MFEA Museum Number: K.16000:042 Site: Waguanzui	Fabric group: 1; Fine, Quartz-Mica-Feldspar										
Sherd photo	Fabric photo										
											
Description											
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black and red; max. wall thickness 6.4 mm.											
MICROSCOPIC: Non-plastic inclusions 10%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> • mica 50% • quartz 49.9% • feldspar 0.1% </td></tr></table>		Coarse 0%	Fine 100%	none	• mica 50% • quartz 49.9% • feldspar 0.1%						
Coarse 0%	Fine 100%										
none	• mica 50% • quartz 49.9% • feldspar 0.1%										
Matrix 90-92%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>inactive</td><td>dark brown / dark red brown</td><td>The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	inactive	dark brown / dark red brown	The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	inactive	dark brown / dark red brown	The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount							

of inclusions and textural features like clay pellets, but all sherds seem to be highly fired.	
Voids 3-5%	
Type and size	Distinct characteristics
macro/ meso vesicles, vughs	none



Sample code: CNP73 MFEA Museum Number: K.16000:043 Site: Waguanzui	Fabric group: 1; Fine, Quartz-Mica-Feldspar										
Sherd photo	Fabric photo										
											
Thin section scan											
											
Description											
MACROSCOPIC: Body sherd; fired in oxidising atmosphere, red fabric with a buff margin on the inside; polished and painted black; max. wall thickness 7.5 mm.											
MICROSCOPIC: Non-plastic inclusions 10%											
<table><tr><td colspan="2">Coarse 0%</td><td colspan="3">Fine 100%</td></tr><tr><td colspan="2">none</td><td colspan="3"> - quartz 65% - mica 30% - feldspar 5% </td></tr></table>		Coarse 0%		Fine 100%			none		- quartz 65% - mica 30% - feldspar 5%		
Coarse 0%		Fine 100%									
none		- quartz 65% - mica 30% - feldspar 5%									
Matrix 85%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>inactive</td><td>dark brown / dark red brown</td><td>The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount of inclusions and textural features</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	inactive	dark brown / dark red brown	The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount of inclusions and textural features
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	inactive	dark brown / dark red brown	The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount of inclusions and textural features							

like clay pellets, but all sherds seem to be highly fired.	
Voids 5%	
Type and size	Distinct characteristics
macro/meso vesicles and vughs	none



Sample code: CNP74 MFEA Museum Number: K.16000:047 Site: Waguanzui	Fabric group: 1; Fine, Quartz-Mica-Feldspar				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body sherd; fired in oxidising atmosphere, red core, buff margins; polished and painted black and dark red; max. wall thickness 6.6 mm. MICROSCOPIC: Non-plastic inclusions 10% <table> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> - quartz 45% - mica 45% - feldspar 10% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	- quartz 45% - mica 45% - feldspar 10%
Coarse 0%	Fine 100%				
none	- quartz 45% - mica 45% - feldspar 10%				

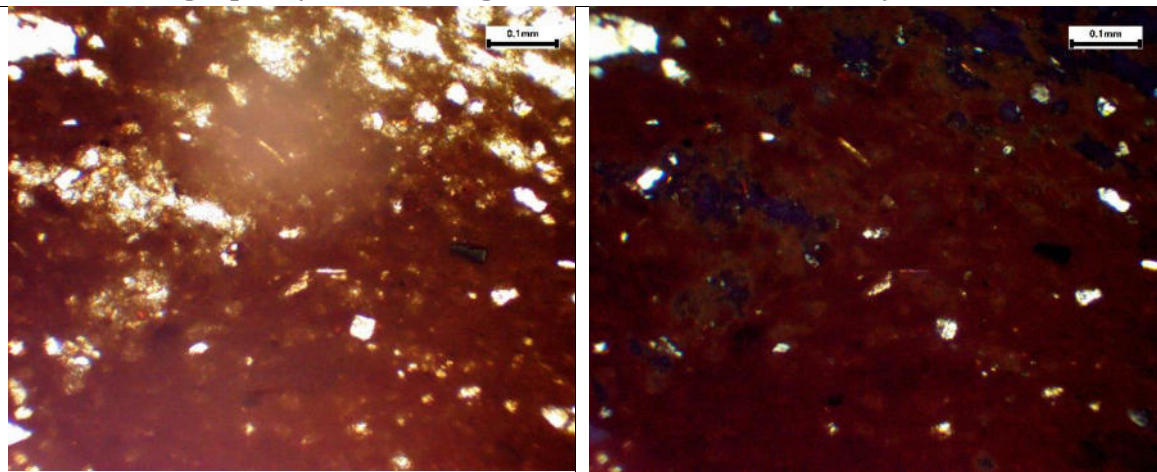
Matrix 85%

Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	inactive	dark brown / dark red brown	The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount of inclusions and textural features like clay pellets, but all sherds seem to be highly fired.

Voids 5%

Type and size	Distinct characteristics
macro/meso vesicles, vughs, channels	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



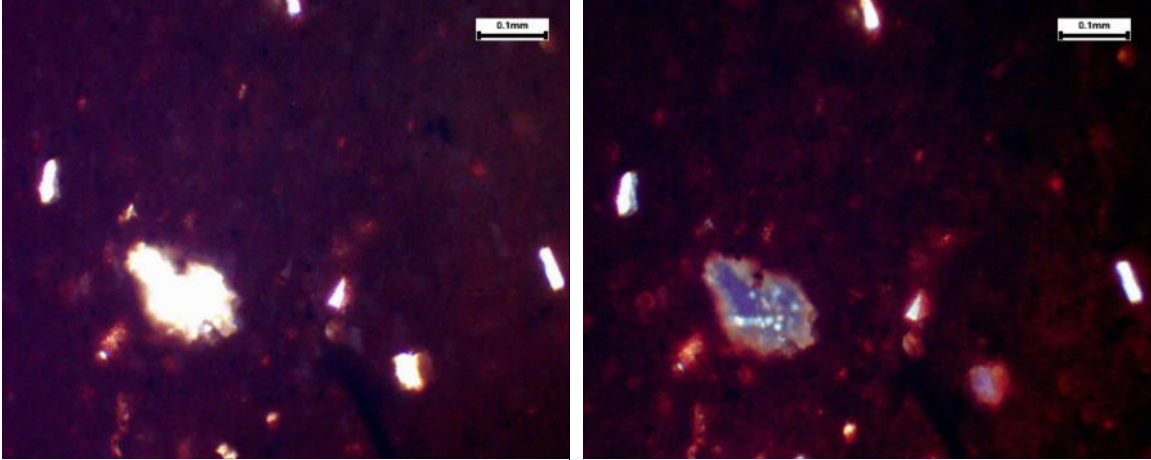
Sample code: CNP75		Fabric group: 3; Fine Quartz dominant		
MFEA Museum Number: K.16000:048				
Site: Waguanzui				
Sherd photo		Fabric photo		
				
		Thin section scan 		
Description				
MACROSCOPIC: Body sherd; faint grey core, red margins; polished and painted black and brown(?) outside and inside; max. wall thickness 7.4 mm.				
MICROSCOPIC: Non-plastic inclusions 5%				
Coarse 0%				

is difficult to see the amount of inclusions and textural features like clay pellets, but all sherds seem to be highly fired.

Voids 5%

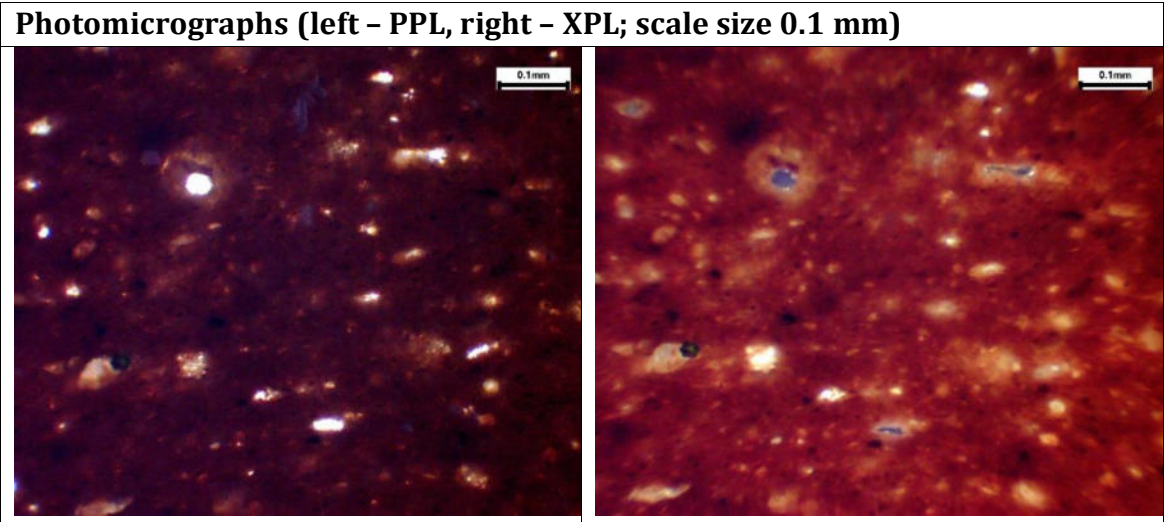
Type and size	Distinct characteristics
macro/meso vesicles, vughs, channels	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



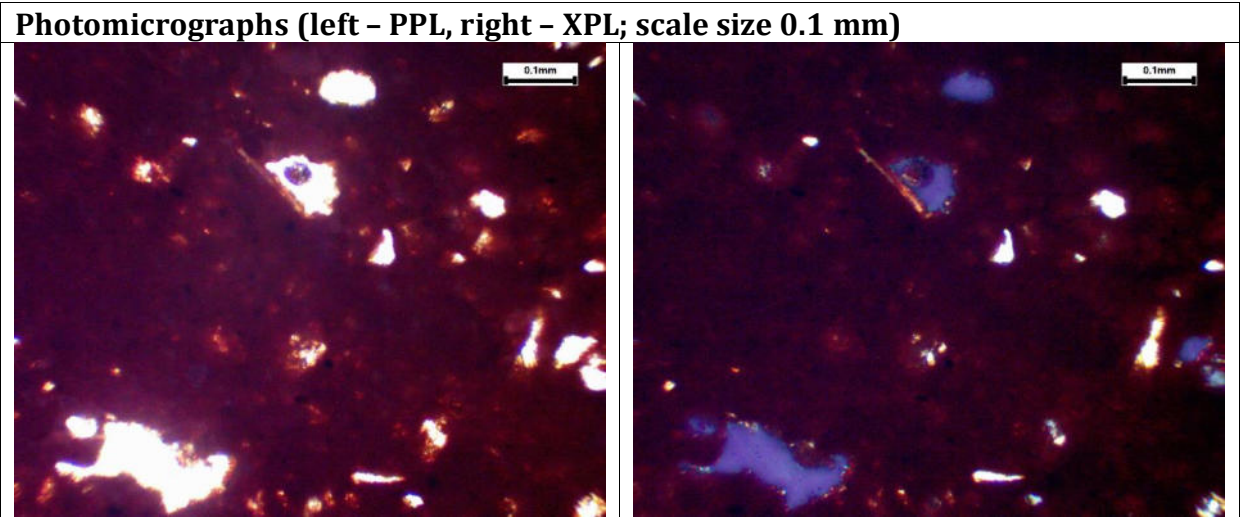
Sample code: CNP76	Fabric group: 2; Fine, Quartz dominant, inclusion frequency 1%										
MFEA Museum Number: K.16000:044											
Site: Waguanzui											
Sherd photo	Fabric photo										
											
	Thin section scan										
Description											
MACROSCOPIC: Body sherd; faint grey core, red margins; polished and painted black; max. wall thickness 5.8 mm.											
MICROSCOPIC: Non-plastic inclusions 1%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> - quartz 70% - mica 30% </td></tr></table>		Coarse 0%	Fine 100%	none	- quartz 70% - mica 30%						
Coarse 0%	Fine 100%										
none	- quartz 70% - mica 30%										
Matrix 89-94%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>inactive</td><td>dark brown/ dark brown</td><td>The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount of inclusions and textural features like clay pellets, but all</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	inactive	dark brown/ dark brown	The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount of inclusions and textural features like clay pellets, but all
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	inactive	dark brown/ dark brown	The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount of inclusions and textural features like clay pellets, but all							

sherds seem to be highly fired.	
Voids 5-10%	
Type and size	Distinct characteristics
meso vesicles, vughs, channels	none



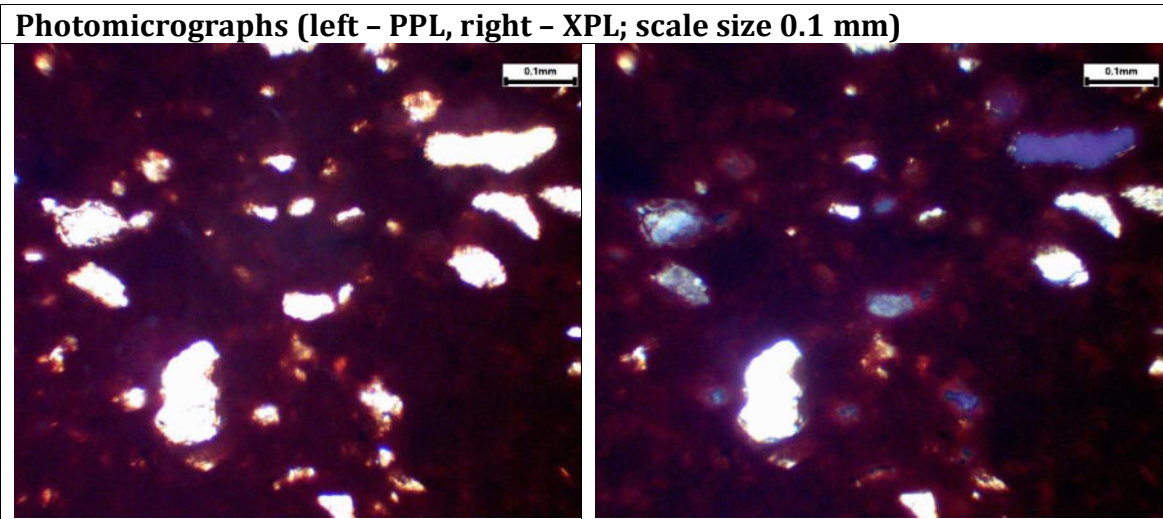
Sample code: CNP77 MFEA Museum Number: K.16000:049 Site: Waguanzui	Fabric group: 1; Fine, Quartz-Mica-Feldspar										
Sherd photo	Fabric photo										
											
	Thin section scan 										
Description											
MACROSCOPIC: Body sherd; fired in oxidising atmosphere, red core, buff margins; plain; max. wall thickness 8.8 mm.											
MICROSCOPIC: Non-plastic inclusions 10-15%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> - quartz 60% - mica 30% - feldspar 10% </td></tr></table>		Coarse 0%	Fine 100%	none	- quartz 60% - mica 30% - feldspar 10%						
Coarse 0%	Fine 100%										
none	- quartz 60% - mica 30% - feldspar 10%										
Matrix 75-80%											
<table><tr><th>Homo-/heterogeneity</th><th>Sorting</th><th>Optical activity</th><th>Colour in PPL/ in XPL</th><th>Textural features/ comments</th></tr><tr><td>homogeneous</td><td>moderate</td><td>inactive</td><td>dark brown/ dark brown</td><td>The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount of inclusions and textural</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	moderate	inactive	dark brown/ dark brown	The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount of inclusions and textural
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	moderate	inactive	dark brown/ dark brown	The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount of inclusions and textural							

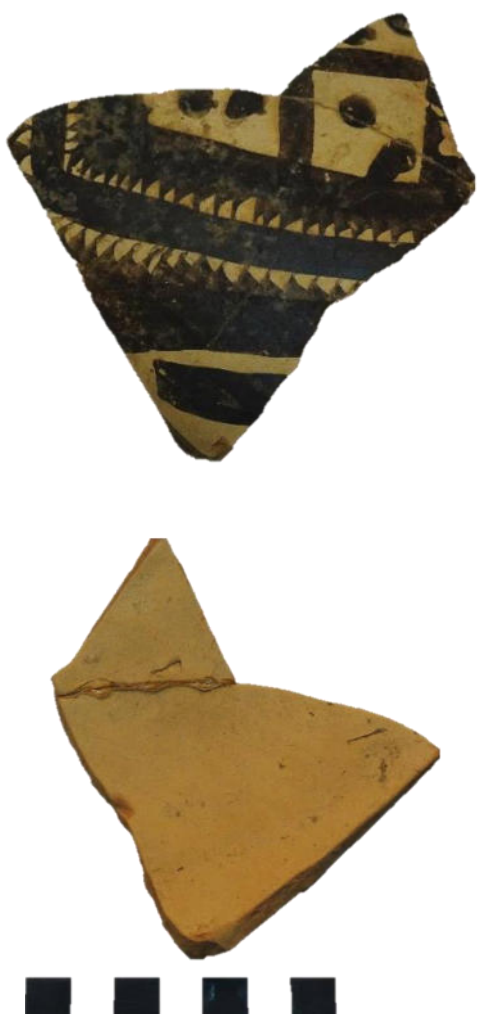
features like clay pellets, but all sherds seem to be highly fired.	
Voids 5-10%	
Type and size	Distinct characteristics
meso vesicles, vughs, channels	none



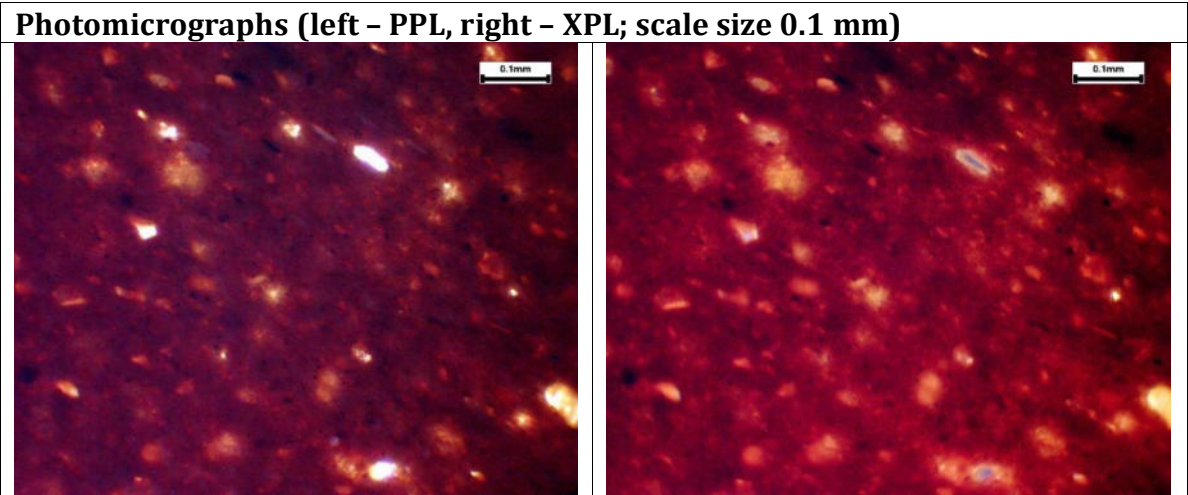
Sample code: CNP78 MFEA Museum Number: K.16000:050 Site: Waguanzui	Fabric group: 1; Fine, Quartz-Mica-Feldspar										
Sherd photo	Fabric photo										
											
	Thin section scan										
											
Description											
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; red and black brand mark; max. wall thickness 8.5 mm.											
MICROSCOPIC: Non-plastic inclusions 10%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> - quartz 65% - mica 30% - feldspar 5% </td></tr></table>		Coarse 0%	Fine 100%	none	- quartz 65% - mica 30% - feldspar 5%						
Coarse 0%	Fine 100%										
none	- quartz 65% - mica 30% - feldspar 5%										
Matrix 75-80%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>moderate</td><td>inactive</td><td>dark brown/ dark brown</td><td>The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	moderate	inactive	dark brown/ dark brown	The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	moderate	inactive	dark brown/ dark brown	The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the							

amount of inclusions and textural features like clay pellets, but all sherds seem to be highly fired.	
Voids 5-10%	
Type and size	Distinct characteristics
meso vesicles, vughs, channels	none



Sample code: CNP79 MFEA Museum Number: K.16000:045 Site: Waguanzui	Fabric group: 2; Fine, Quartz dominant, inclusion frequency 1%										
Sherd photo	Fabric photo										
											
	Thin section scan 										
Description											
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 5.6 mm.											
MICROSCOPIC: Non-plastic inclusions 1%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> - quartz 90% - mica 10% </td></tr></table>		Coarse 0%	Fine 100%	none	- quartz 90% - mica 10%						
Coarse 0%	Fine 100%										
none	- quartz 90% - mica 10%										
Matrix 89-94%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>inactive</td><td>dark brown / dark</td><td>thin section was cut thicker than the standard –</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	inactive	dark brown / dark	thin section was cut thicker than the standard –
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	inactive	dark brown / dark	thin section was cut thicker than the standard –							

	brown	difficult to estimate the amount of inclusions
Voids 5-10%		
Type and size	Distinct characteristics	
meso vesicles, vughs, channels	none	



Sample code: CNP80		Fabric group: 1; Fine, Quartz-Mica-Feldspar		
MFEA Museum Number: K.16000:046				
Site: Waguanzui				
Sherd photo		Fabric photo		
				
		Thin section scan		
				
Description				
MACROSCOPIC:				
Body sherd; oxidising with a faint grey layer; plain; max. wall thickness 8 mm.				
MICROSCOPIC:				
Non-plastic inclusions 10-15%				
Coarse 0%		Fine 100%		
none		- quartz 60% - mica 30% - feldspar 10%		
Matrix 75-80%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	inactive	dark brown/ dark brown	The thin-sections from the Waguanzui sherds are thicker than the standard 0.03 mm, so it is difficult to see the amount of inclusions and textural features like clay pellets, but all sherds seem to be highly fired.

Voids 5-10%

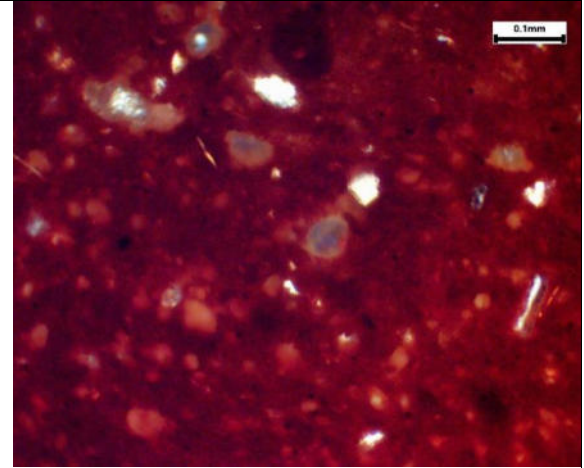
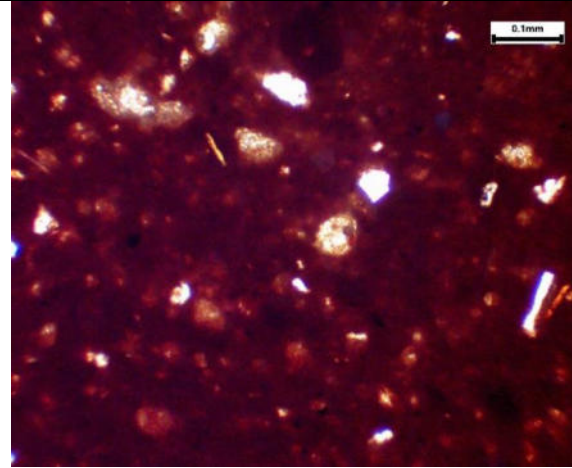
Type and size

meso vesicles, vughs, channels

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP81 MFEA Museum Number: K.12128:1 Site: Zhujiashai	Fabric (not grouped): Semi-coarse, Quartz-Feldspar with Volcanic glass(?) fragments				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC: Body, rim, and handle sherd; half of the core is light grey, other is red, orange oxidised margins; polished, painted white and brown(?); max. wall thickness 5 mm.					
MICROSCOPIC: Non-plastic inclusions 30%					
<table border="1"> <thead> <tr> <th>Coarse 40%</th><th>Fine 60%</th></tr> </thead> <tbody> <tr> <td> - quartz (eq, el; s-ang – rnd; FSa-CSa) 40% - plagioclase feldspar (eq, el; ang; MSa-CSa) 30% - volcanic glass? (eq; rnd; FSa-MSa) 20% - biotite and muscovite (lamellae; MSa) 10% </td><td> - mica 50% - quartz 50% </td></tr> </tbody> </table>		Coarse 40%	Fine 60%	- quartz (eq, el; s-ang – rnd; FSa-CSa) 40% - plagioclase feldspar (eq, el; ang; MSa-CSa) 30% - volcanic glass? (eq; rnd; FSa-MSa) 20% - biotite and muscovite (lamellae; MSa) 10%	- mica 50% - quartz 50%
Coarse 40%	Fine 60%				
- quartz (eq, el; s-ang – rnd; FSa-CSa) 40% - plagioclase feldspar (eq, el; ang; MSa-CSa) 30% - volcanic glass? (eq; rnd; FSa-MSa) 20% - biotite and muscovite (lamellae; MSa) 10%	- mica 50% - quartz 50%				

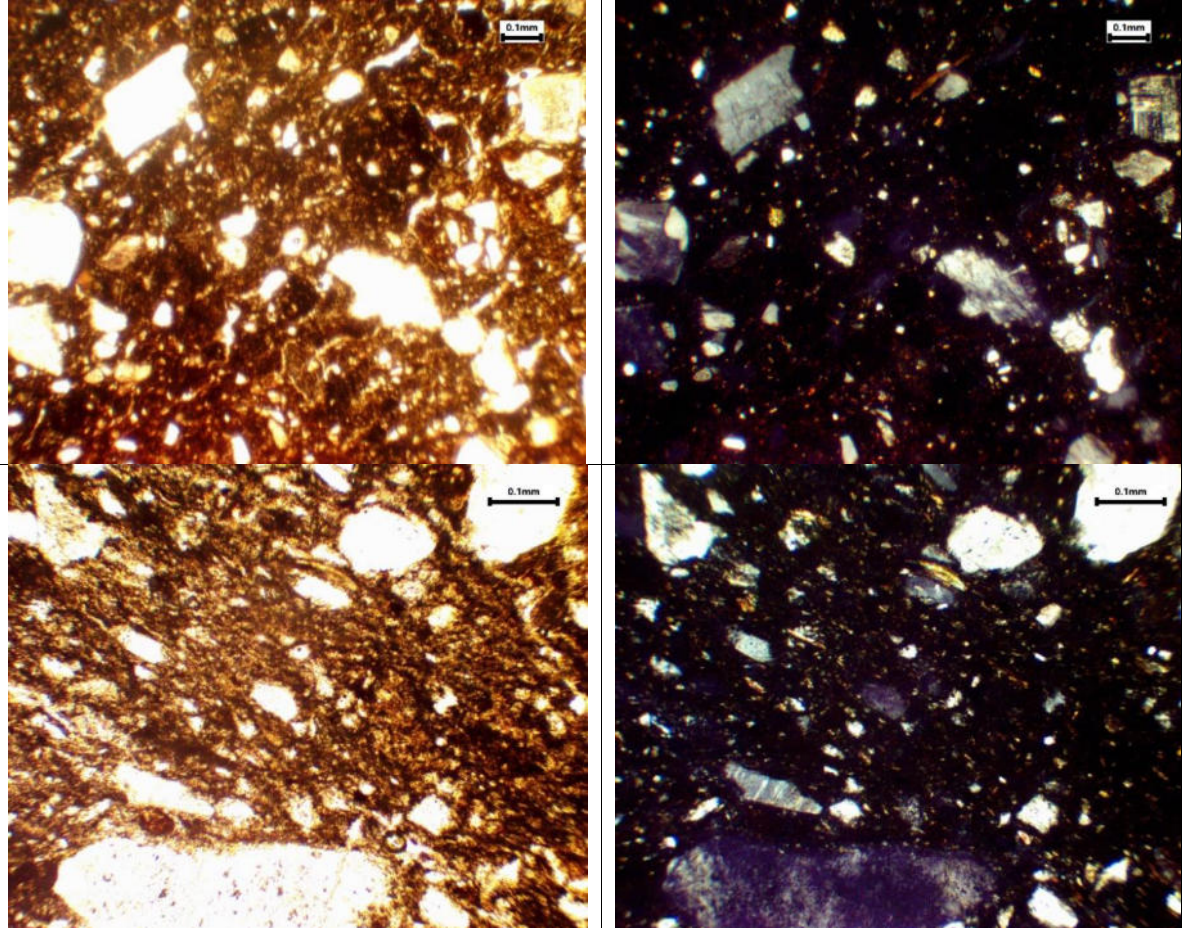
Matrix 67-69%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	moderate	red brown to grey / golden brown to dark grey	most of the matrix is active, the area around larger voids in the sample core is charred and vitrified

Voids 1-3%

Type and size	Distinct characteristics
macro/meso vesicles, meso channels and vughs?	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP82 MFEA Museum Number: K.2055:7 Site: Zhujiashai	Fabric group: 4B; Coarse, Quartz-Feldspar-Granodiorite fragments, lower inclusion frequency than Fabric group 4A								
Sherd photo 	Fabric photo  Thin section scan 								
Description MACROSCOPIC: Body and handle sherd; oxidised core, reduced margins; decorated with diagonal cord impression and appliqué; max. wall thickness 10.4 mm. MICROSCOPIC: Non-plastic inclusions 30% <table border="1"> <thead> <tr> <th>Coarse 60%</th><th>Fine 40%</th></tr> </thead> <tbody> <tr> <td>• quartz (eq, el; S-ang FSa-CSa) 55%</td><td>• quartz 70%</td></tr> <tr> <td>• plagioclase feldspar (eq; s-ang; MSa-CSa) 35%</td><td>• mica 30%</td></tr> <tr> <td>• granitic rock fragments – combination of quartz, plagioclase/ microcline feldspar with muscovite/ biotite (ang; s-ang; CSa) 10%</td><td></td></tr> </tbody> </table>		Coarse 60%	Fine 40%	• quartz (eq, el; S-ang FSa-CSa) 55%	• quartz 70%	• plagioclase feldspar (eq; s-ang; MSa-CSa) 35%	• mica 30%	• granitic rock fragments – combination of quartz, plagioclase/ microcline feldspar with muscovite/ biotite (ang; s-ang; CSa) 10%	
Coarse 60%	Fine 40%								
• quartz (eq, el; S-ang FSa-CSa) 55%	• quartz 70%								
• plagioclase feldspar (eq; s-ang; MSa-CSa) 35%	• mica 30%								
• granitic rock fragments – combination of quartz, plagioclase/ microcline feldspar with muscovite/ biotite (ang; s-ang; CSa) 10%									

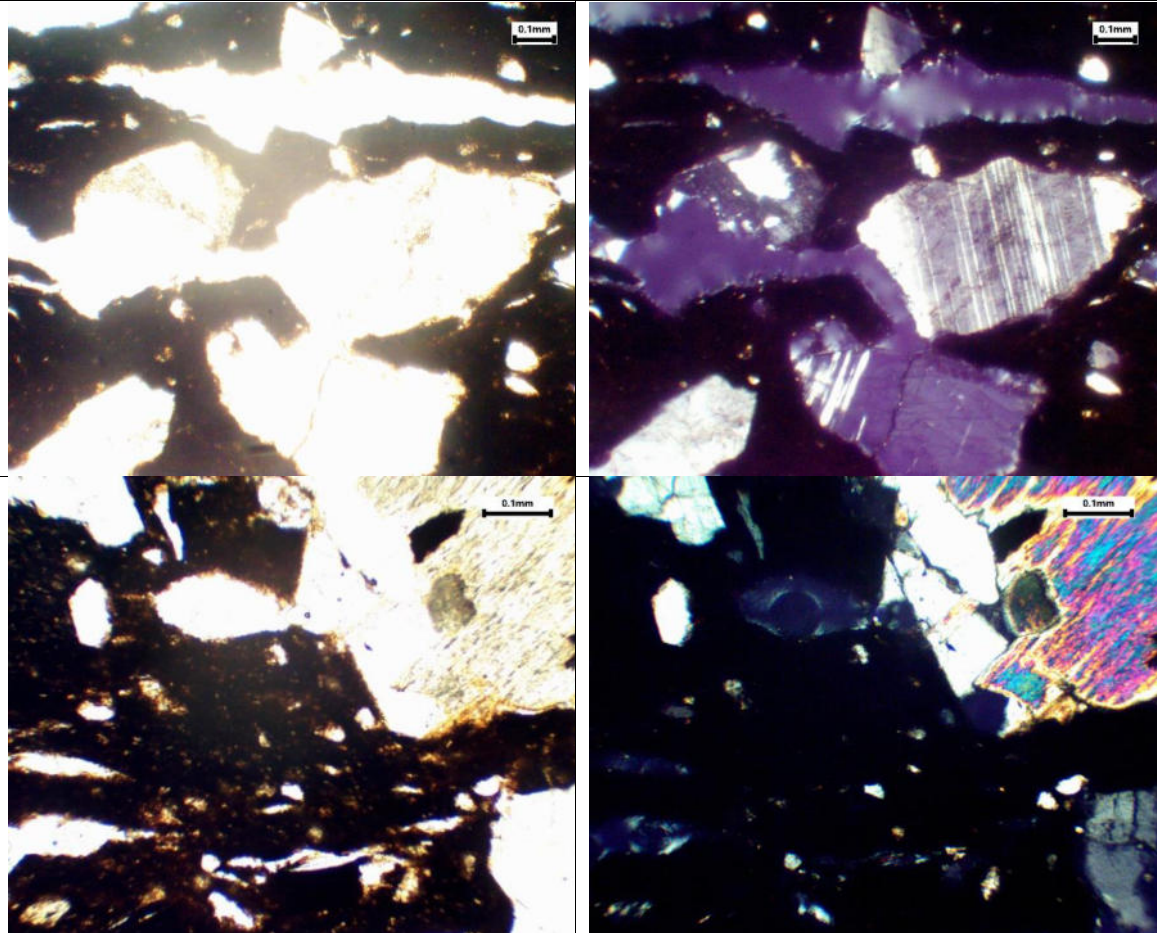
Matrix 45-50%

Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	inactive	dark grey brown/ deep dark brown almost black	very porous fabric

Voids 15-20%

Type and size	Distinct characteristics
mega/ macro channels, macro vughs	Most channels are aligned parallel to the long edge – result of drying or left by combusted organic temper?

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP83 MFEA Museum Number: K.2055:9 Site: Zhujiashai	Fabric group: 4B; Coarse, Quartz-Feldspar-Granodiorite fragments, lower inclusion frequency than Fabric group 4A				
Sherd photo	Fabric photo				
					
	Thin section scan				
					
Description MACROSCOPIC: Body and handle sherd; oxidised core, reduced margins; decorated with vertical or cross-cord impression on the wall and appliqué on the handle; max. wall thickness 8.8 mm. MICROSCOPIC: Non-plastic inclusions 15%					
<table> <thead> <tr> <th>Coarse 20%</th><th>Fine 80%</th></tr> </thead> <tbody> <tr> <td> - quartz (eq, el; ang – s-rnd; CSa-FGr) 54.4% - granitic rock fragments consist of quartz, plagioclase feldspar, biotite and/or muscovite (eq; s-ang, CSa-FGr) 45% </td><td> - quartz 60% - mica 39% - feldspar < 1% </td></tr> </tbody> </table>		Coarse 20%	Fine 80%	- quartz (eq, el; ang – s-rnd; CSa-FGr) 54.4% - granitic rock fragments consist of quartz, plagioclase feldspar, biotite and/or muscovite (eq; s-ang, CSa-FGr) 45%	- quartz 60% - mica 39% - feldspar < 1%
Coarse 20%	Fine 80%				
- quartz (eq, el; ang – s-rnd; CSa-FGr) 54.4% - granitic rock fragments consist of quartz, plagioclase feldspar, biotite and/or muscovite (eq; s-ang, CSa-FGr) 45%	- quartz 60% - mica 39% - feldspar < 1%				

- biotite and muscovite (lamellae; MSa-CSa) 0.5%
- plagioclase feldspar (eq; ang; FSa-MSa) 0.1%

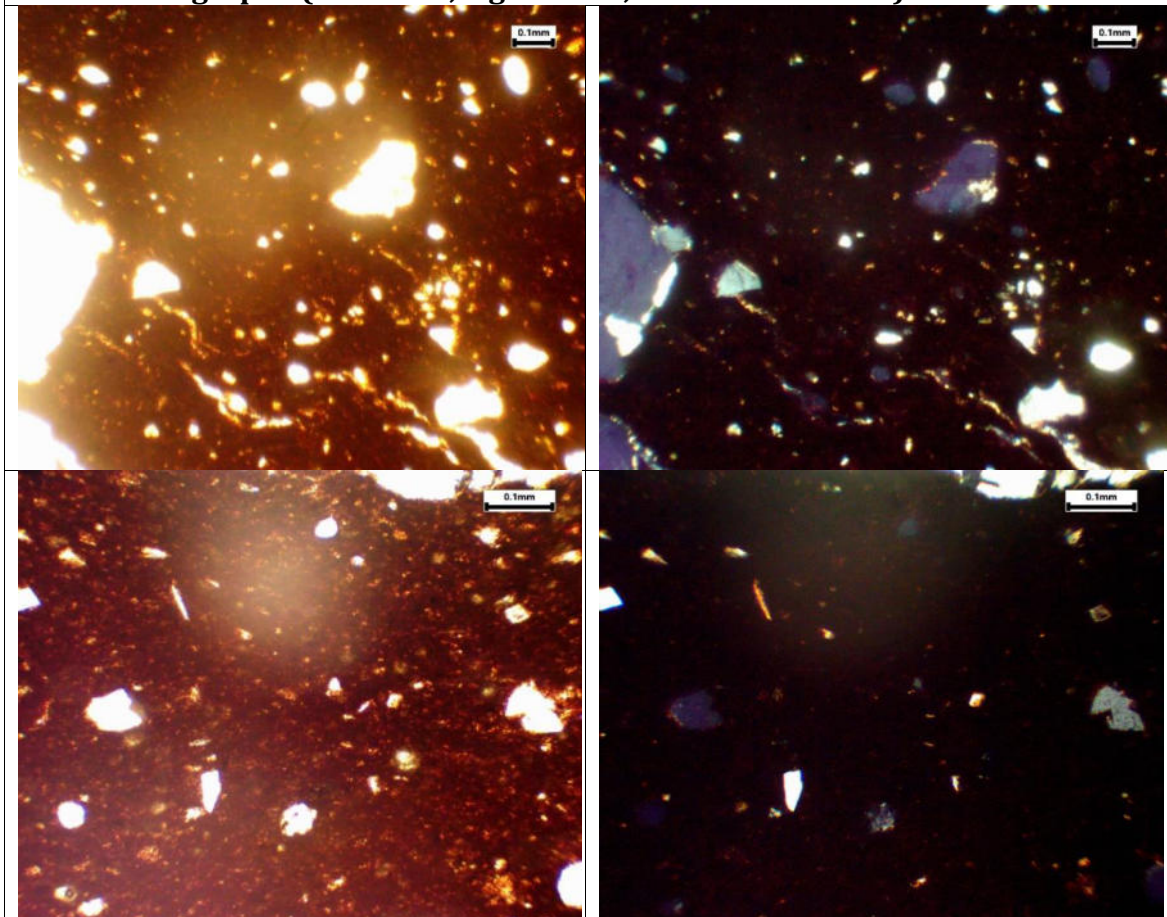
Matrix 75-80%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	moderate	brown/ dark brown	dispersed secondary calcite? very porous sample – many vesicles

Voids 5-10%

Type and size	Distinct characteristics
mega/ macro channels, vughs, meso vesicles	secondary calcite accumulations the edges

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP84 MFEA Museum Number: K.2055:42 Site: Zhujiashai	Fabric group: 6; Coarse, Grog				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description MACROSCOPIC: Full profile sherd; slightly reduced core, oxidised margins; plain; max. word thickness 11.4 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 30%</th> <th>Fine 70%</th> </tr> </thead> <tbody> <tr> <td> - quartz (eq, el; ang – s-rnd; FSa) 50.5% - grog: appears to be from similar mica-quartz fabric as the groundmass but looks thicker in thin section and is probably higher fired; 2 or 3 differently fired fabrics for grog - grog in grog as </td> <td> - mica 49.5% - quartz 40% - calcite 10% - feldspar <0.5% </td> </tr> </tbody> </table>		Coarse 30%	Fine 70%	- quartz (eq, el; ang – s-rnd; FSa) 50.5% - grog: appears to be from similar mica-quartz fabric as the groundmass but looks thicker in thin section and is probably higher fired; 2 or 3 differently fired fabrics for grog - grog in grog as	- mica 49.5% - quartz 40% - calcite 10% - feldspar <0.5%
Coarse 30%	Fine 70%				
- quartz (eq, el; ang – s-rnd; FSa) 50.5% - grog: appears to be from similar mica-quartz fabric as the groundmass but looks thicker in thin section and is probably higher fired; 2 or 3 differently fired fabrics for grog - grog in grog as	- mica 49.5% - quartz 40% - calcite 10% - feldspar <0.5%				

well? (eq, el; s-ang – s-rnd; MSa-FGr) 44%

- crystalline and micritic calcite (eq; ang – s-rnd; FSa-MSa) 5%
- sedimentary rock fragment – sandstone? (eq; ang; CSa) 0.5%

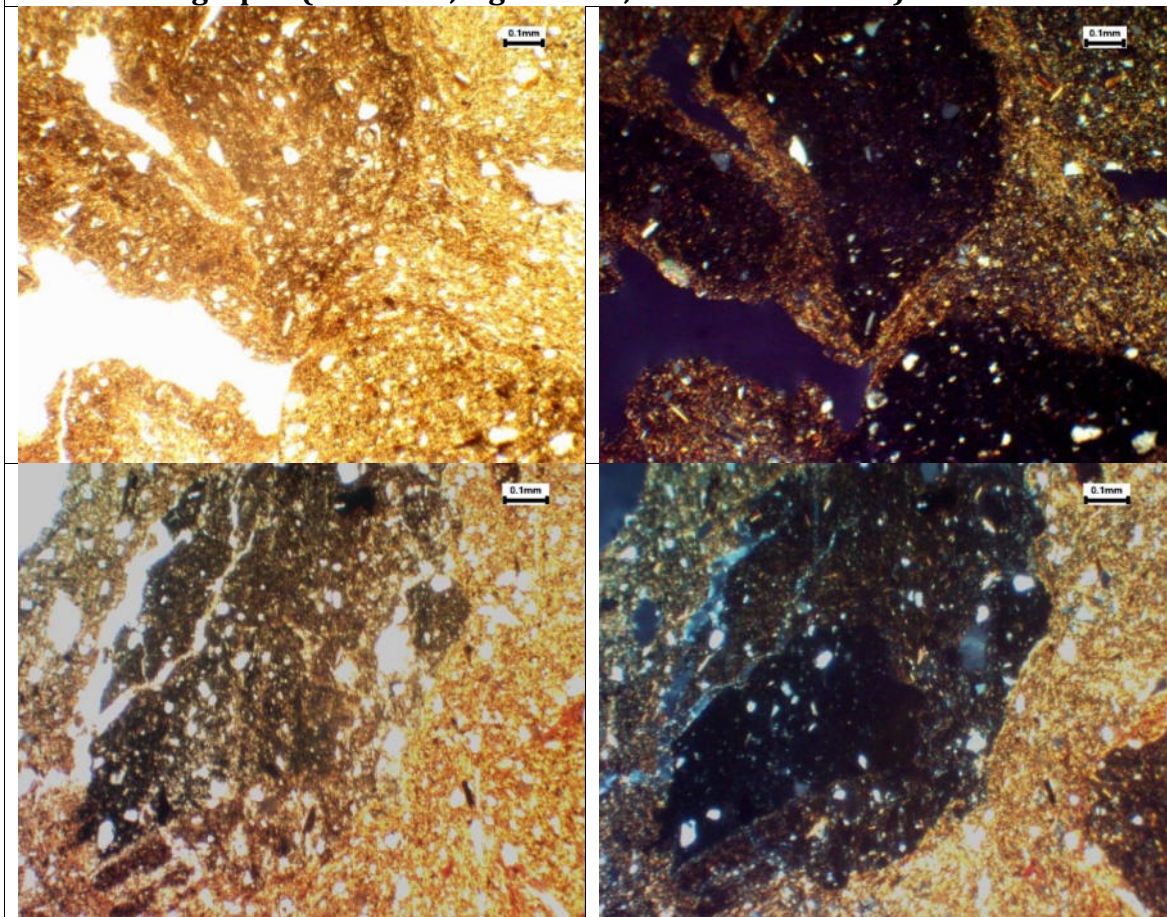
Matrix 85%

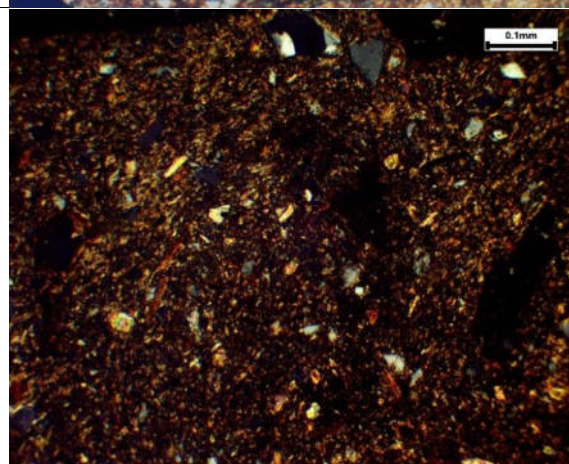
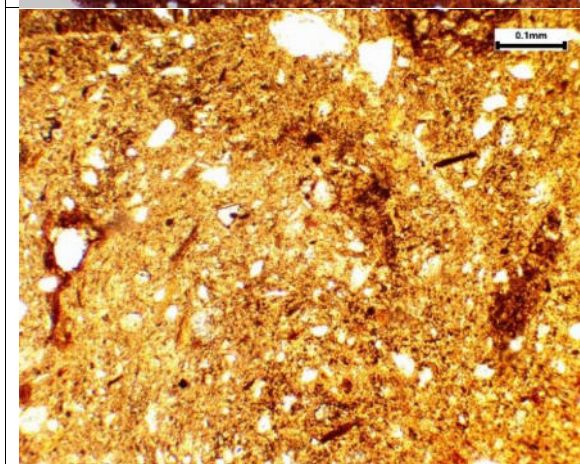
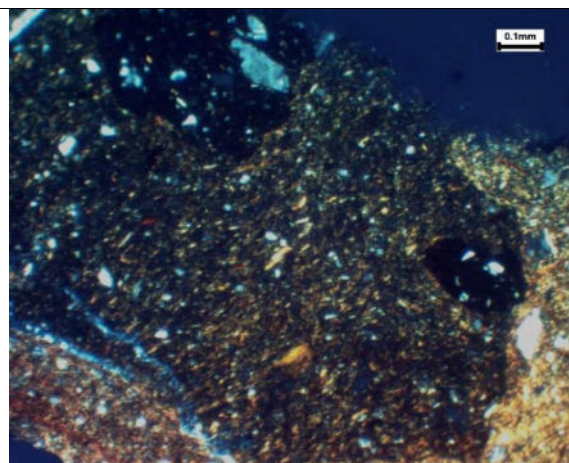
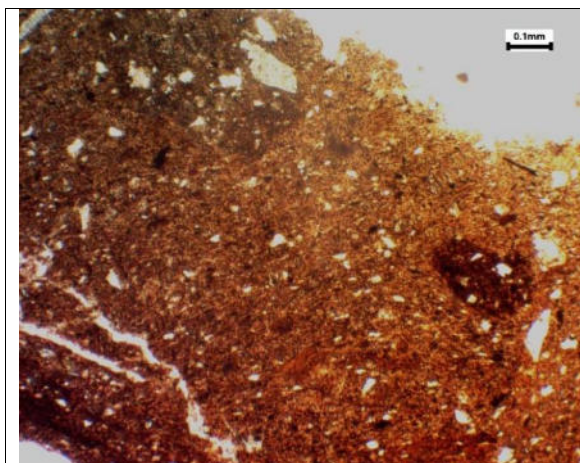
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	reddish brown to greyish light brown/ golden	heterogeneity result of poor mixing?

Voids 5%

Type and size	Distinct characteristics
macro/ meso channels and vughs	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



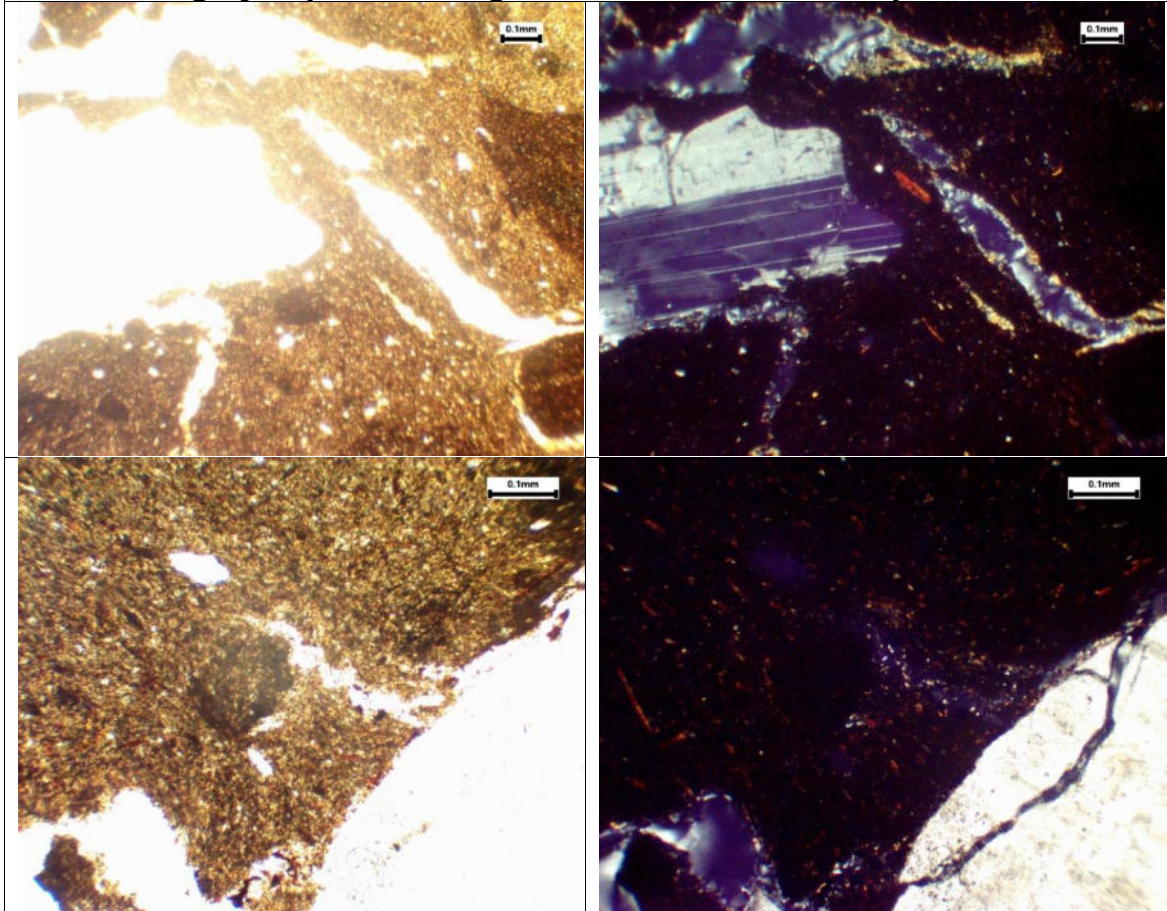


Sample code: CNP85 MFEA Museum Number: K.2055:67 Site: Zhujiashai	Fabric group: 4B; Coarse, Quartz-Feldspar-Granodiorite fragments, lower inclusion frequency than Fabric group 4A										
Sherd photo	Fabric photo										
	 Thin section scan 										
Description											
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; decorated with appliqué; max. wall thickness 6 mm.											
MICROSCOPIC: Non-plastic inclusions 10%											
<table><tr><td colspan="2">Coarse 15%</td><td colspan="2">Fine 85%</td></tr><tr><td colspan="2"> - plagioclase feldspar (eq, el; s-rnd – s-ang; CSa) 70% - quartz (eq, el; s-ang; CSa) 25% - biotite (lamellae; CSa) 5% </td><td colspan="2"> - mica 70% - quartz 30% </td></tr></table>		Coarse 15%		Fine 85%		- plagioclase feldspar (eq, el; s-rnd – s-ang; CSa) 70% - quartz (eq, el; s-ang; CSa) 25% - biotite (lamellae; CSa) 5%		- mica 70% - quartz 30%			
Coarse 15%		Fine 85%									
- plagioclase feldspar (eq, el; s-rnd – s-ang; CSa) 70% - quartz (eq, el; s-ang; CSa) 25% - biotite (lamellae; CSa) 5%		- mica 70% - quartz 30%									
Matrix 80-85%											
<table><tr><th>Homo-/heterogeneity</th><th>Sorting</th><th>Optical activity</th><th>Colour in PPL/ in XPL</th><th>Textural features/ comments</th></tr><tr><td>heterogeneous</td><td>poor</td><td>moderate</td><td>greyish brown/ dark brown</td><td>FSa-CSa clay pellets, >10% of the matrix; fine fraction is of MSi size or smaller</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	heterogeneous	poor	moderate	greyish brown/ dark brown	FSa-CSa clay pellets, >10% of the matrix; fine fraction is of MSi size or smaller
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
heterogeneous	poor	moderate	greyish brown/ dark brown	FSa-CSa clay pellets, >10% of the matrix; fine fraction is of MSi size or smaller							

Voids 5-10%

Type and size	Distinct characteristics
mega/ meso channels and vughs, meso vesicles	secondary calcite on void margins, very porous sample, many vesicles, some voids have vitrified margins

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP86 MFEA Museum Number: K.2055:94 Site: Zhujiashai	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments										
Sherd photo 	Fabric photo 										
Description MACROSCOPIC: Body and handle base sherd; oxidised core with reduced exterior surface; decorated with cross-cord impression; max. wall thickness 8.8 mm. MICROSCOPIC: Non-plastic inclusions 20-25% <table border="1"> <thead> <tr> <th>Coarse 30%</th><th>Fine 70%</th></tr> </thead> <tbody> <tr> <td>• quartz (eq, el; s-ang; FSa-FGr) 40%</td><td>• quartz 90%</td></tr> <tr> <td>• plagioclase feldspar (eq; s-ang; FSa-CSa) 35%</td><td>• mica 10%</td></tr> <tr> <td>• granitic rock fragments - quartz and plagioclase feldspar and/or microcline, biotite, muscovite (eq; ang-s-ang, CSa) 20%</td><td></td></tr> <tr> <td>• mica (lamellae; MSa-CSa) 5%</td><td></td></tr> </tbody> </table>		Coarse 30%	Fine 70%	• quartz (eq, el; s-ang; FSa-FGr) 40%	• quartz 90%	• plagioclase feldspar (eq; s-ang; FSa-CSa) 35%	• mica 10%	• granitic rock fragments - quartz and plagioclase feldspar and/or microcline, biotite, muscovite (eq; ang-s-ang, CSa) 20%		• mica (lamellae; MSa-CSa) 5%	
Coarse 30%	Fine 70%										
• quartz (eq, el; s-ang; FSa-FGr) 40%	• quartz 90%										
• plagioclase feldspar (eq; s-ang; FSa-CSa) 35%	• mica 10%										
• granitic rock fragments - quartz and plagioclase feldspar and/or microcline, biotite, muscovite (eq; ang-s-ang, CSa) 20%											
• mica (lamellae; MSa-CSa) 5%											

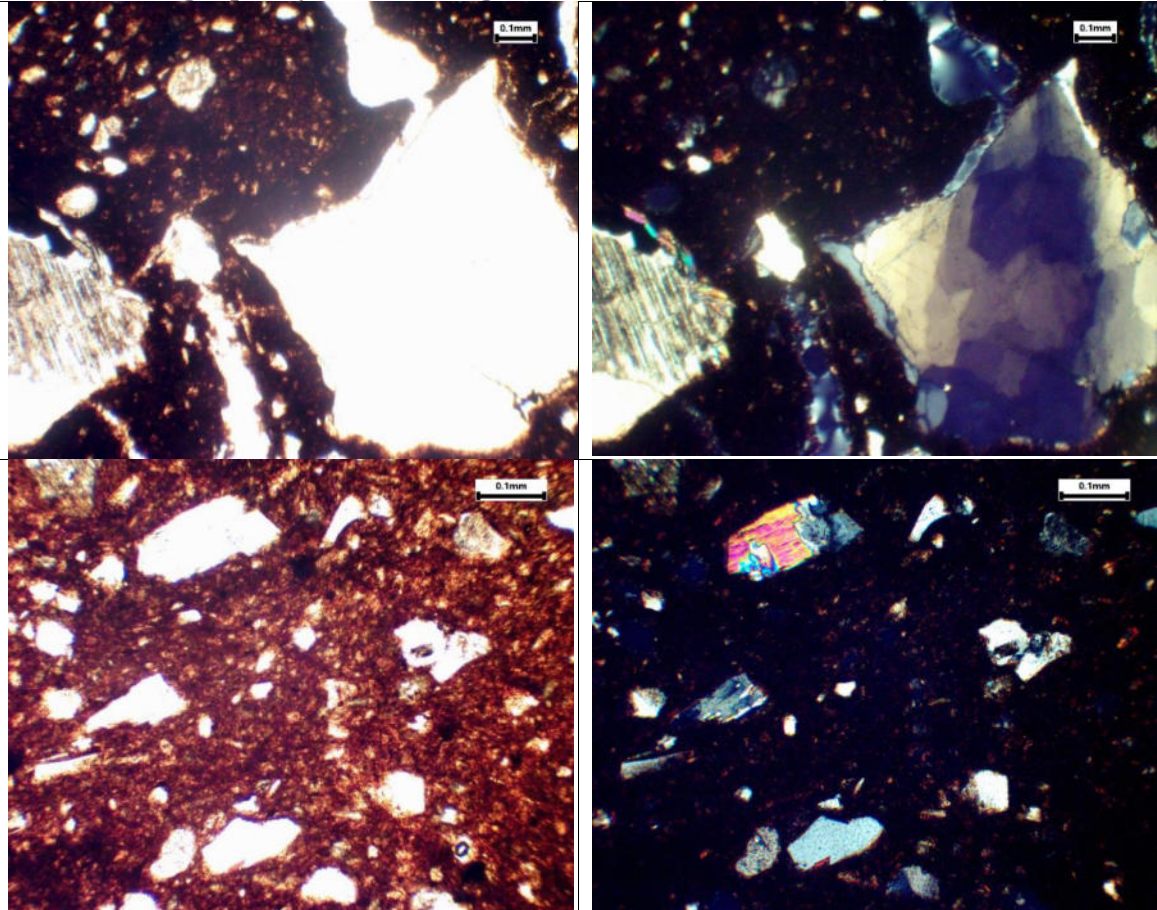
Matrix 72-77%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	active	brown/ golden brown	some plagioclase crystals are almost fully covered in mica – sericitic alteration

Voids 3%

Type and size	Distinct characteristics
macro/meso vughs, channels, planar voids	secondary calcite accumulations in some voids?

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP87 MFEA Museum Number: K.2055:107 Site: Zhujiashai	Fabric group: 4B; Coarse, Quartz-Feldspar-Granodiorite fragments, lower inclusion frequency than Fabric group 4A				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body sherd; oxidised outside, reduced inside; decorated with vertical or cross-cord impression and appliqué; max. wall thickness 9.5 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 40%</th> <th>Fine 60%</th> </tr> </thead> <tbody> <tr> <td> - quartz (eq, el; s-ang; FSa-CSa) 49.9% - plagioclase feldspar (eq; ang – s-ang; CSa) 22% - granitic rock fragments - quartz and plagioclase feldspar, biotite, muscovite (eq; ang – s-ang, CSa) 22% </td> <td> - quartz 90% - mica 10% - feldspar <1%? </td> </tr> </tbody> </table>		Coarse 40%	Fine 60%	- quartz (eq, el; s-ang; FSa-CSa) 49.9% - plagioclase feldspar (eq; ang – s-ang; CSa) 22% - granitic rock fragments - quartz and plagioclase feldspar, biotite, muscovite (eq; ang – s-ang, CSa) 22%	- quartz 90% - mica 10% - feldspar <1%?
Coarse 40%	Fine 60%				
- quartz (eq, el; s-ang; FSa-CSa) 49.9% - plagioclase feldspar (eq; ang – s-ang; CSa) 22% - granitic rock fragments - quartz and plagioclase feldspar, biotite, muscovite (eq; ang – s-ang, CSa) 22%	- quartz 90% - mica 10% - feldspar <1%?				

- biotite and muscovite (lamellae; CSa) 5%
- sandstone – quartz, plagioclase feldspar and mica in carbonate cement (eq; rnd; CSa) 1%
- clay pellet or mudstone? (eq; rnd; FGr) 0.1%

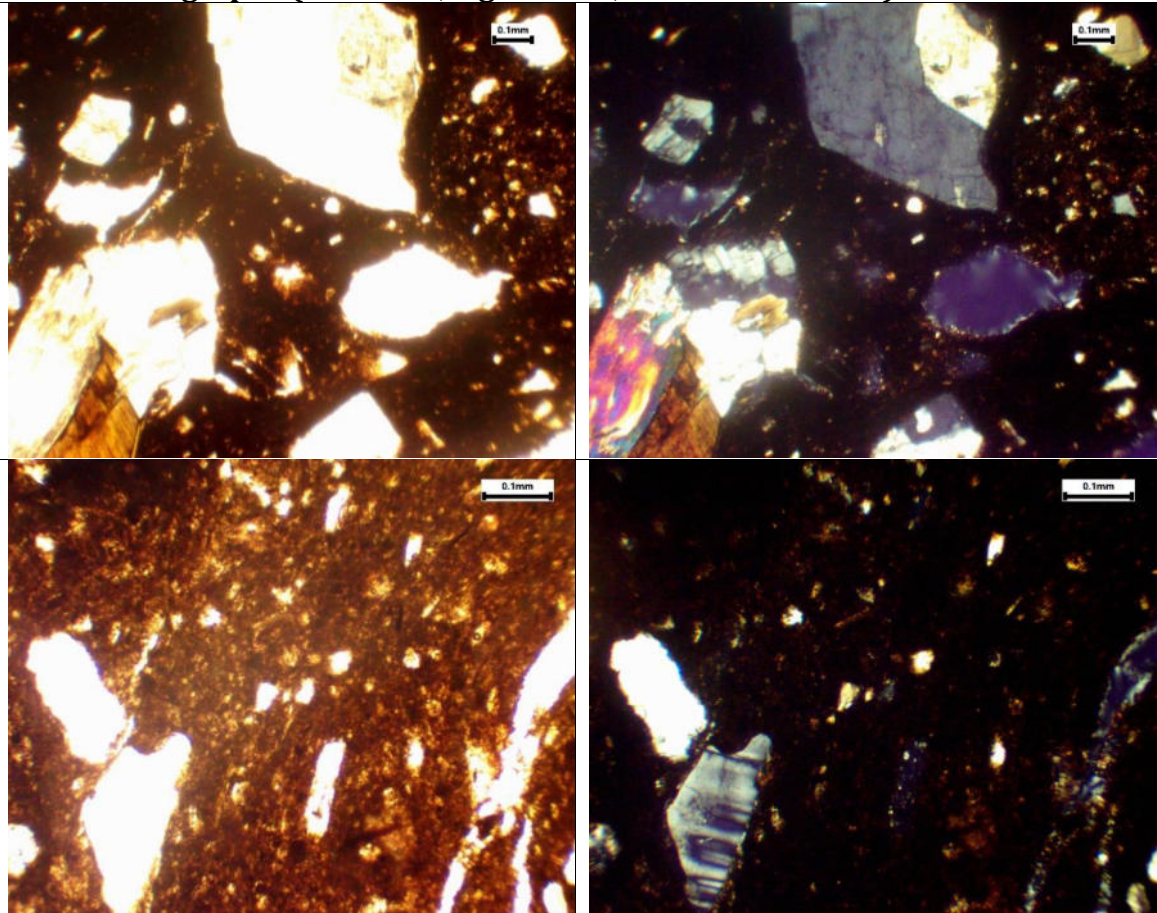
Matrix 85-87%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	moderate	brown/ dark brown	none

Voids 3-5%

Type and size	Distinct characteristics
mega/ macro channels and vughs	channels voids are located mostly between the very coarse inclusions

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP88 MFEA Museum Number: K.2055:112 Site: Zhujiashai	Fabric group: 4B; Coarse, Quartz-Feldspar-Granodiorite fragments, lower inclusion frequency than Fabric group 4A
Sherd photo 	Fabric photo  Thin section scan 
Description MACROSCOPIC: Body sherd; oxidised core with reduced exterior surface; plain; max. wall thickness 13 mm. MICROSCOPIC: Non-plastic inclusions 20% Coarse 60% Fine 40% - quartz (eq, el; s-rnd; FSa-MSa) 45% - plagioclase feldspar (eq; s-ang; MSa-CSa) 30% - quartz 89% - mica 10%	

- granitic rock fragments - quartz, plagioclase feldspar with rare biotite or muscovite (weathered eq; s-ang; CSa-FGr) 15%
- biotite (lamellae, FSa) 10%
- feldspar 1%

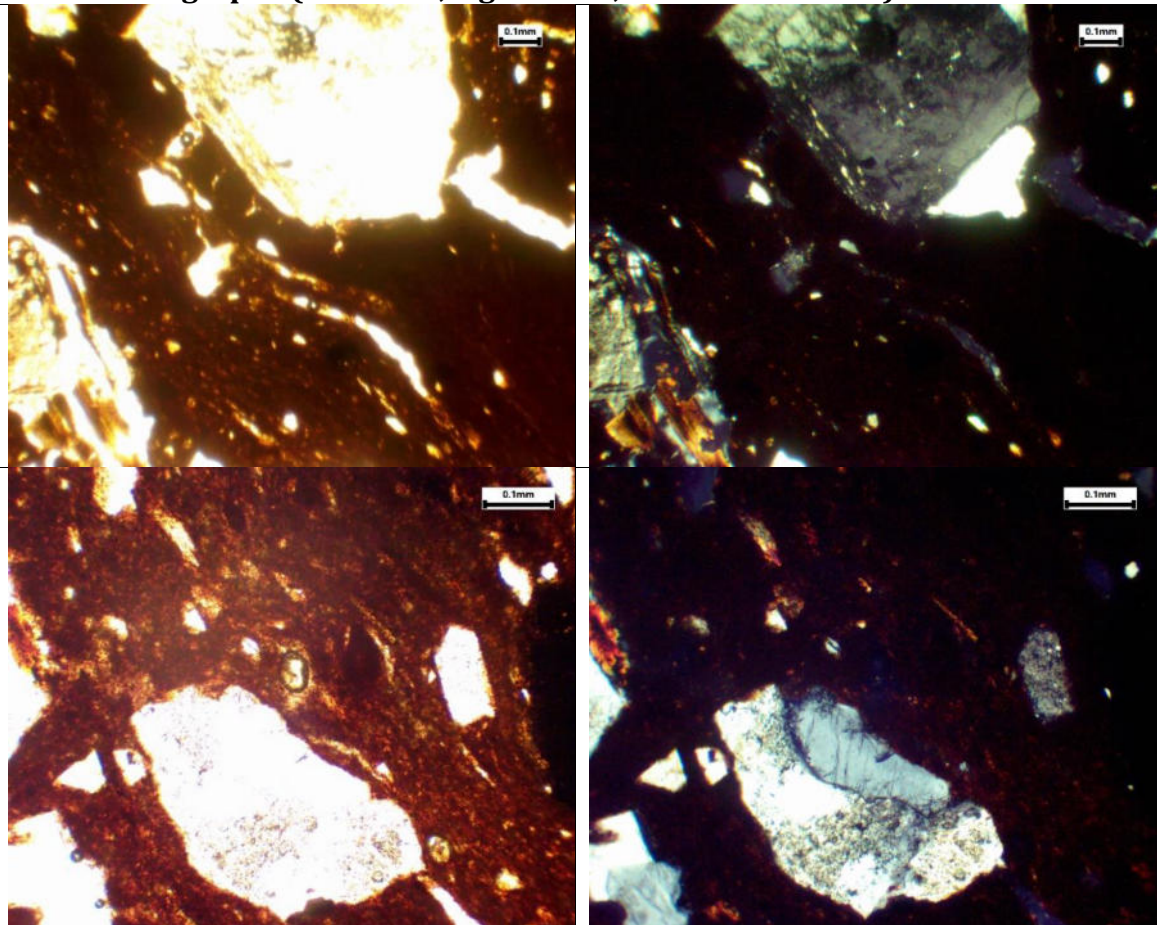
Matrix 75%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	moderate	brown/ dark brown	fine fraction is not evenly distributed – poor mixing; not Majiayao but Siwa style?

Voids 5%

Type and size	Distinct characteristics
mega/ macro channels, vughs	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP89 MFEA Museum Number: K.2055:183 Site: Zhujiashai	Fabric group: 6; Coarse, Grog				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Rim sherd; oxidised core, thin reduced margins; decorated with finger(?) impression; max. wall thickness 14 mm, rim 10 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 15%</th> <th>Fine 85%</th> </tr> </thead> <tbody> <tr> <td> - grog from vitrified fabric with quartz-mica-feldspar inclusions (eq, el; s-ang; MSa-FGr) 80% - quartz (eq, el; ang – rnd; FSa) 19.9% - plagioclase feldspar (el; s-rnd; FSa) 0.1% </td> <td> - mica 69% - quartz 30% - feldspar < 1% </td> </tr> </tbody> </table>		Coarse 15%	Fine 85%	- grog from vitrified fabric with quartz-mica-feldspar inclusions (eq, el; s-ang; MSa-FGr) 80% - quartz (eq, el; ang – rnd; FSa) 19.9% - plagioclase feldspar (el; s-rnd; FSa) 0.1%	- mica 69% - quartz 30% - feldspar < 1%
Coarse 15%	Fine 85%				
- grog from vitrified fabric with quartz-mica-feldspar inclusions (eq, el; s-ang; MSa-FGr) 80% - quartz (eq, el; ang – rnd; FSa) 19.9% - plagioclase feldspar (el; s-rnd; FSa) 0.1%	- mica 69% - quartz 30% - feldspar < 1%				

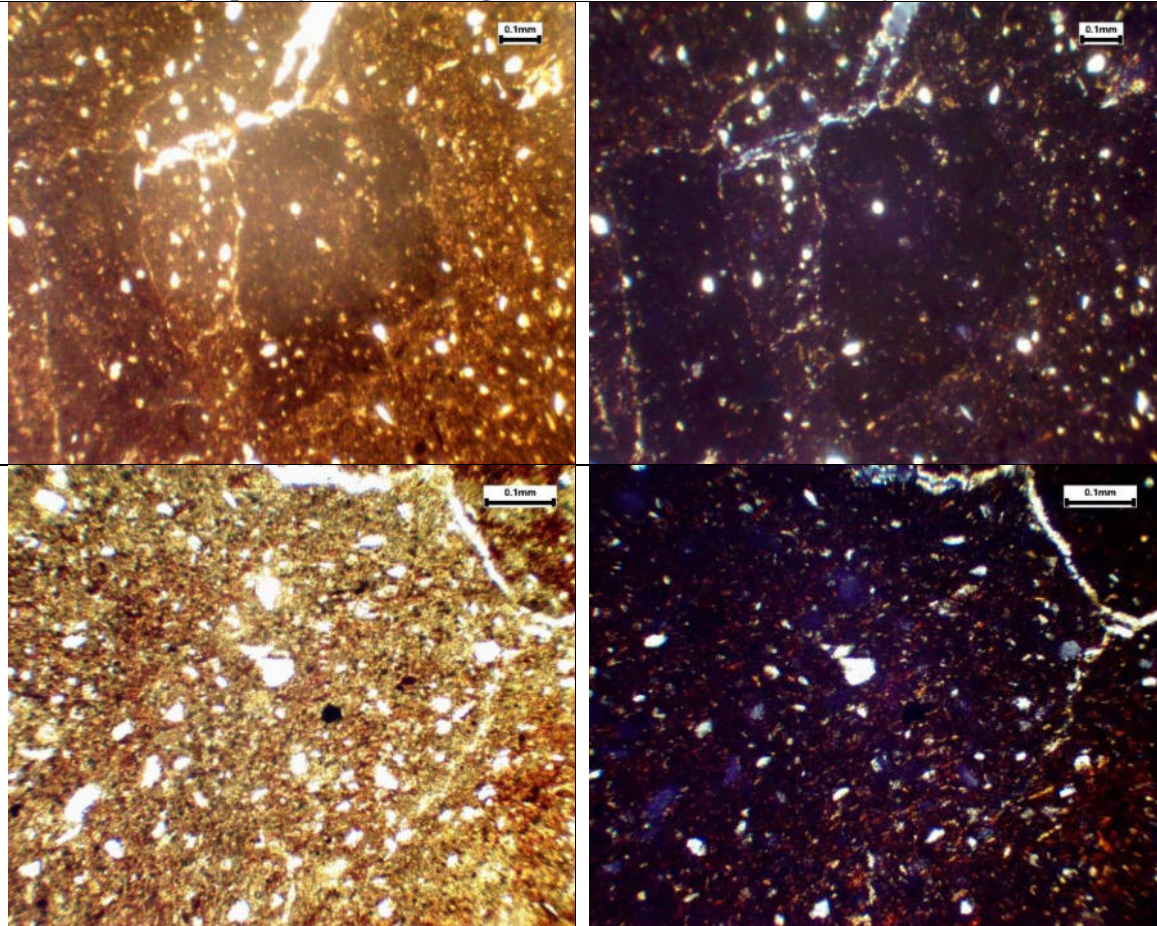
Matrix 70%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	moderate	grey brown/ dark greenish brown	none

Voids 10%

Type and size	Distinct characteristics
mega/ macro vughs, channels	Most channels are filled with secondary calcite.

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP90 MFEA Museum Number: K.2055:184 Site: Zhujiashai	Fabric group: 6; Coarse, Grog				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description MACROSCOPIC: Rim and upper body sherd; fired in oxidising atmosphere but the exterior surface is black – result of firing or treatment? Decorated with cross-cord impression; max. wall thickness 7.8 mm, rim 9.8 mm. MICROSCOPIC: Non-plastic inclusions 30% <table border="1"> <thead> <tr> <th>Coarse 50%</th> <th>Fine 50%</th> </tr> </thead> <tbody> <tr> <td> - quartz (eq, el; ang – s-rnd; FSa-MSa) 70% - grog of vitrified fabric with coarse and fine quartz inclusions: appears to be two different grog fabrics – one is completely vitrified the other is showing moderate optical activity and has a coarse fabric with high mica content (eq; ang – rnd; CSa) 15% - plagioclase feldspar (eq, el; s-ang – s-rnd; MSa) 10% </td> <td> - mica 60% - quartz 39% - feldspar >1% </td> </tr> </tbody> </table>		Coarse 50%	Fine 50%	- quartz (eq, el; ang – s-rnd; FSa-MSa) 70% - grog of vitrified fabric with coarse and fine quartz inclusions: appears to be two different grog fabrics – one is completely vitrified the other is showing moderate optical activity and has a coarse fabric with high mica content (eq; ang – rnd; CSa) 15% - plagioclase feldspar (eq, el; s-ang – s-rnd; MSa) 10%	- mica 60% - quartz 39% - feldspar >1%
Coarse 50%	Fine 50%				
- quartz (eq, el; ang – s-rnd; FSa-MSa) 70% - grog of vitrified fabric with coarse and fine quartz inclusions: appears to be two different grog fabrics – one is completely vitrified the other is showing moderate optical activity and has a coarse fabric with high mica content (eq; ang – rnd; CSa) 15% - plagioclase feldspar (eq, el; s-ang – s-rnd; MSa) 10%	- mica 60% - quartz 39% - feldspar >1%				

- biotite (lamellae; MSa) 5%

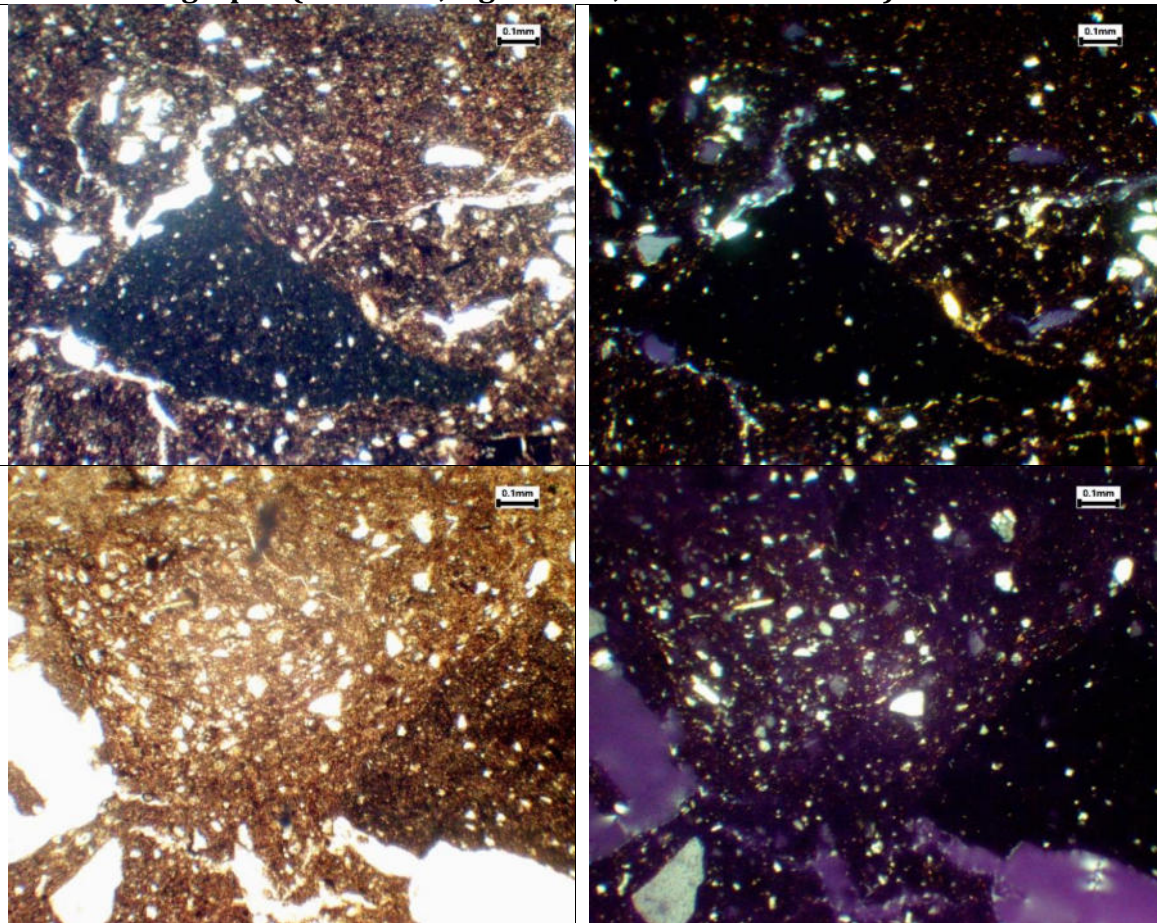
Matrix 67%

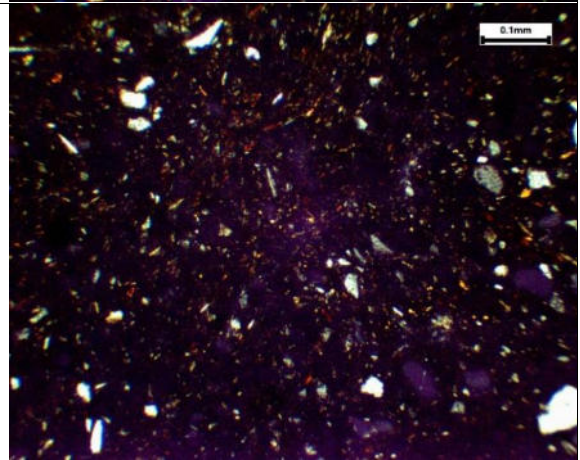
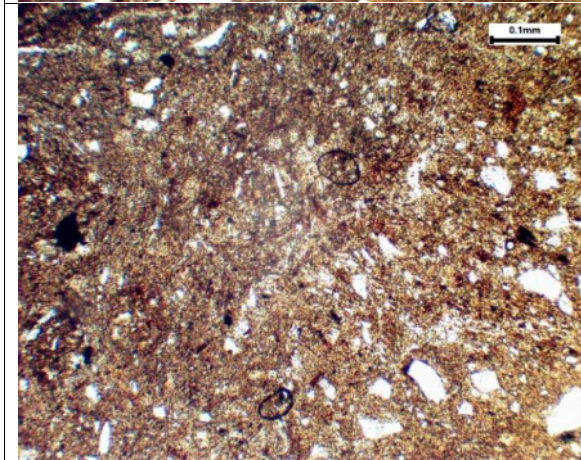
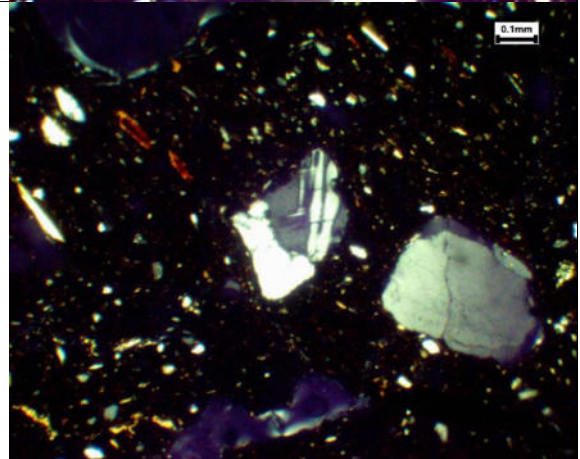
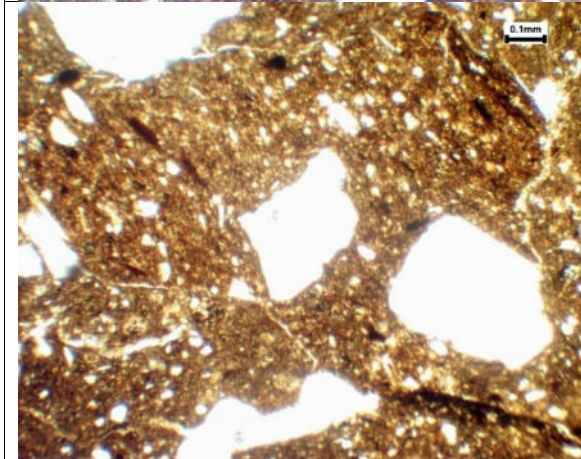
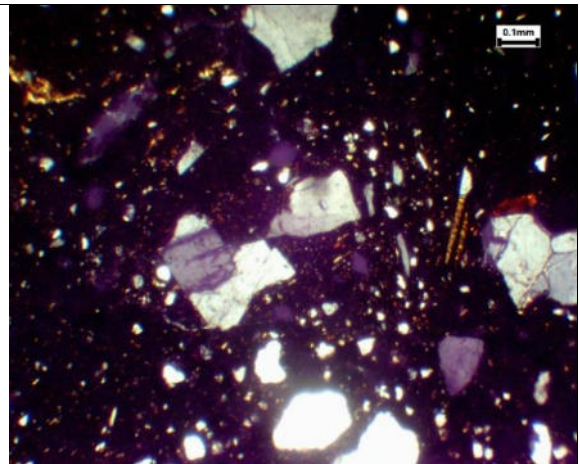
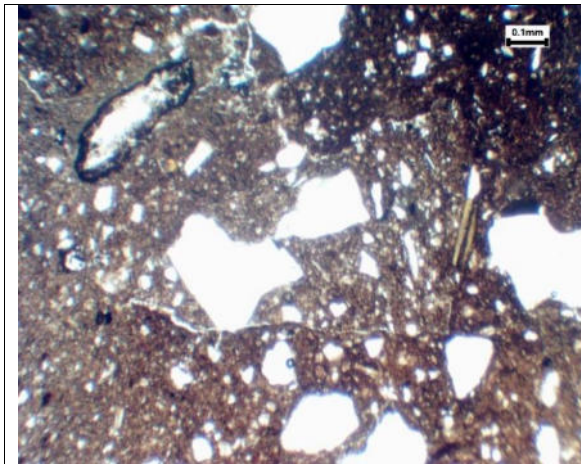
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	moderate	grey brown/ dark grey brown	dispersed secondary calcite? difficult to tell the grog with coarse non-vitrified fabric and matrix apart

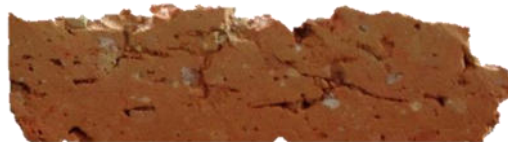
Voids 3%

Type and size	Distinct characteristics
macro/meso planar voids, channels, vughs, vesicles	planar voids are filled with secondary calcite

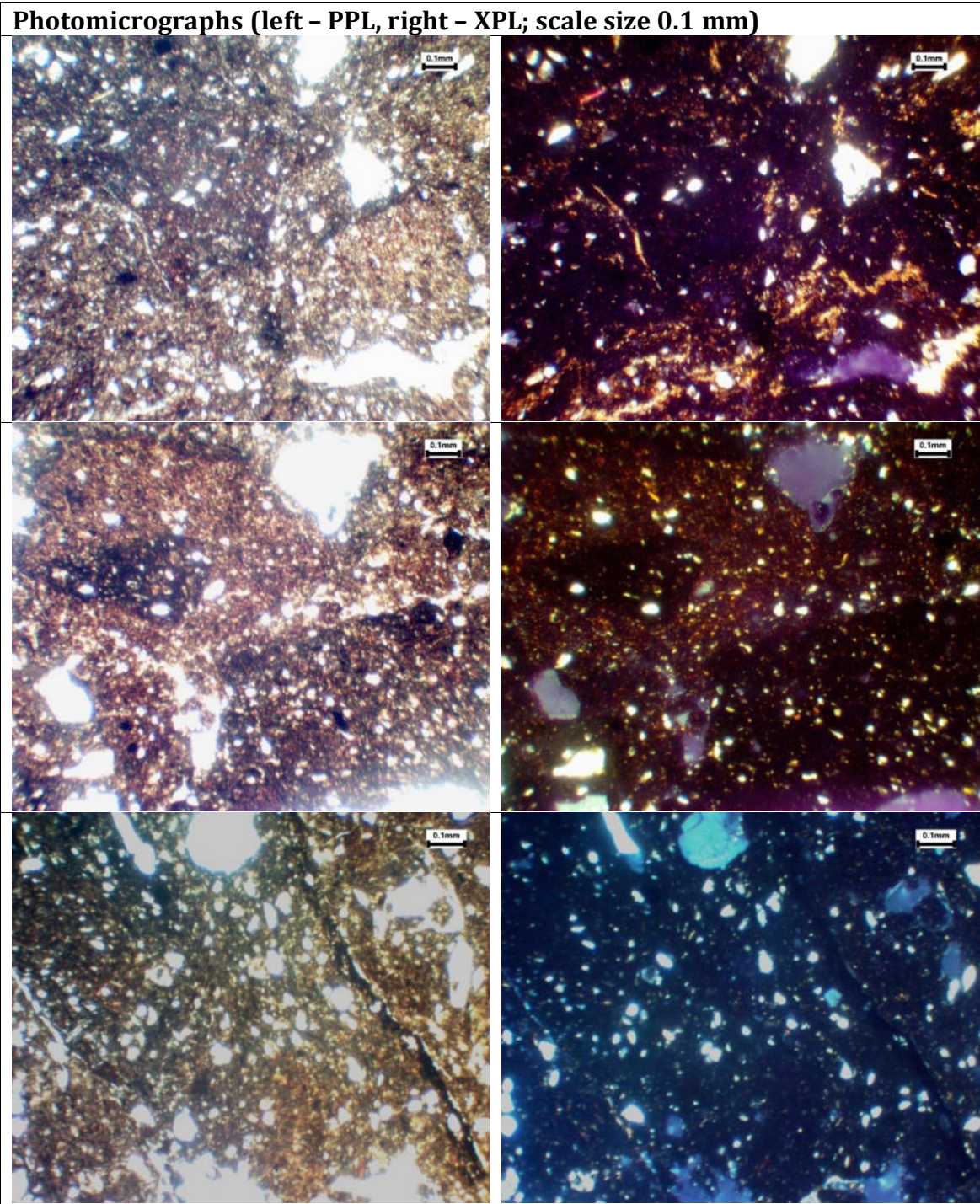
Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)

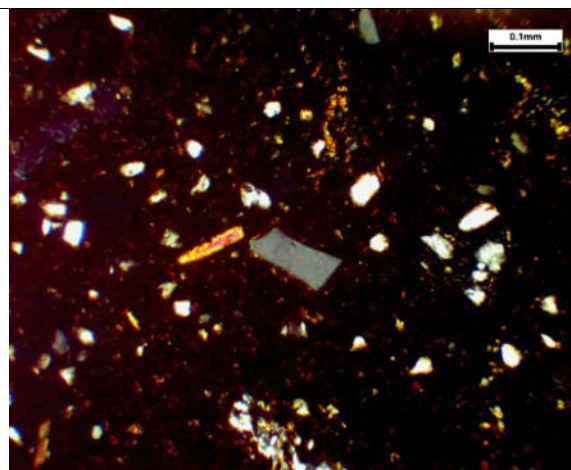
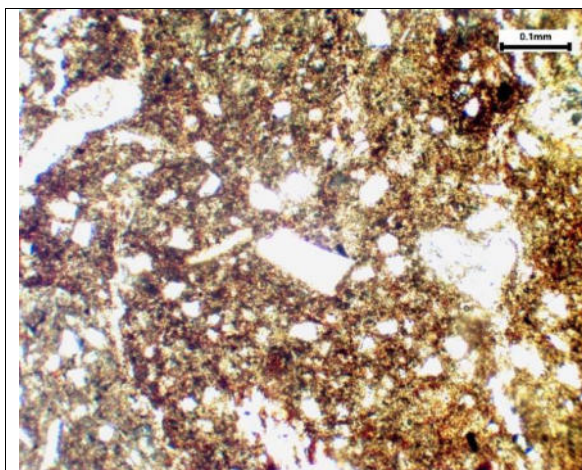




Sample code: CNP91	Fabric group: 6; Coarse, Grog			
MFEA Museum Number: K.2055:204				
Site: Zhujiashai				
Sherd photo	Fabric photo			
				
	Thin section scan			
				
Description				
MACROSCOPIC:				
Body and handle base sherd; fired in oxidising atmosphere; polished and painted red; max. wall thickness 13.2 mm.				
MICROSCOPIC:				
Non-plastic inclusions 30%				
Coarse 50%		Fine 50%		
- quartz (eq, el; ang – s-rnd; FSa-MSa) 55% - grog: vitrified fabric with quartz-mica-feldspar (eq; ang – s-rnd; MSa-CSa) 40% - plagioclase feldspar (eq, el; ang – s-ang; FSa-MSa) 5%		- mica 45% - quartz 45% - feldspar 10%		
Matrix 67-69%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	moderate	greyish	dispersed secondary

		brown/ dark brown	calcite? Clay mixing?
Voids 1-3%			
Type and size	Distinct characteristics		
macro/ meso vughs	few voids are filled with secondary calcite		





Sample code: CNP92 MFEA Museum Number: K.2055:248 Site: Zhujiashai	Fabric (not grouped): Semi-coarse, Quartz-Feldspar with Metamorphic rock fragments				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body sherd; slightly reduced core, oxidised margins; polished and painted brown(?); max. wall thickness 4 mm. MICROSCOPIC: Non-plastic inclusions 20-30 % <table border="1"> <thead> <tr> <th>Coarse 30%</th> <th>Fine 70%</th> </tr> </thead> <tbody> <tr> <td> - quartz (eq, el; ang – rnd; FSa-MSa) 79% - microcline/ plagioclase feldspar (eq; rnd; FSa-MSa) 15% - metamorphic rock fragments - quartz-mica schist? (eq, el; s-rnd - rnd; MSa-CSa) 5% - muscovite (lamellae; FSa-MSa) 1% </td> <td> - mica 70% - quartz 30% - clinopyroxene? (rhomboid) </td> </tr> </tbody> </table>		Coarse 30%	Fine 70%	- quartz (eq, el; ang – rnd; FSa-MSa) 79% - microcline/ plagioclase feldspar (eq; rnd; FSa-MSa) 15% - metamorphic rock fragments - quartz-mica schist? (eq, el; s-rnd - rnd; MSa-CSa) 5% - muscovite (lamellae; FSa-MSa) 1%	- mica 70% - quartz 30% - clinopyroxene? (rhomboid)
Coarse 30%	Fine 70%				
- quartz (eq, el; ang – rnd; FSa-MSa) 79% - microcline/ plagioclase feldspar (eq; rnd; FSa-MSa) 15% - metamorphic rock fragments - quartz-mica schist? (eq, el; s-rnd - rnd; MSa-CSa) 5% - muscovite (lamellae; FSa-MSa) 1%	- mica 70% - quartz 30% - clinopyroxene? (rhomboid)				

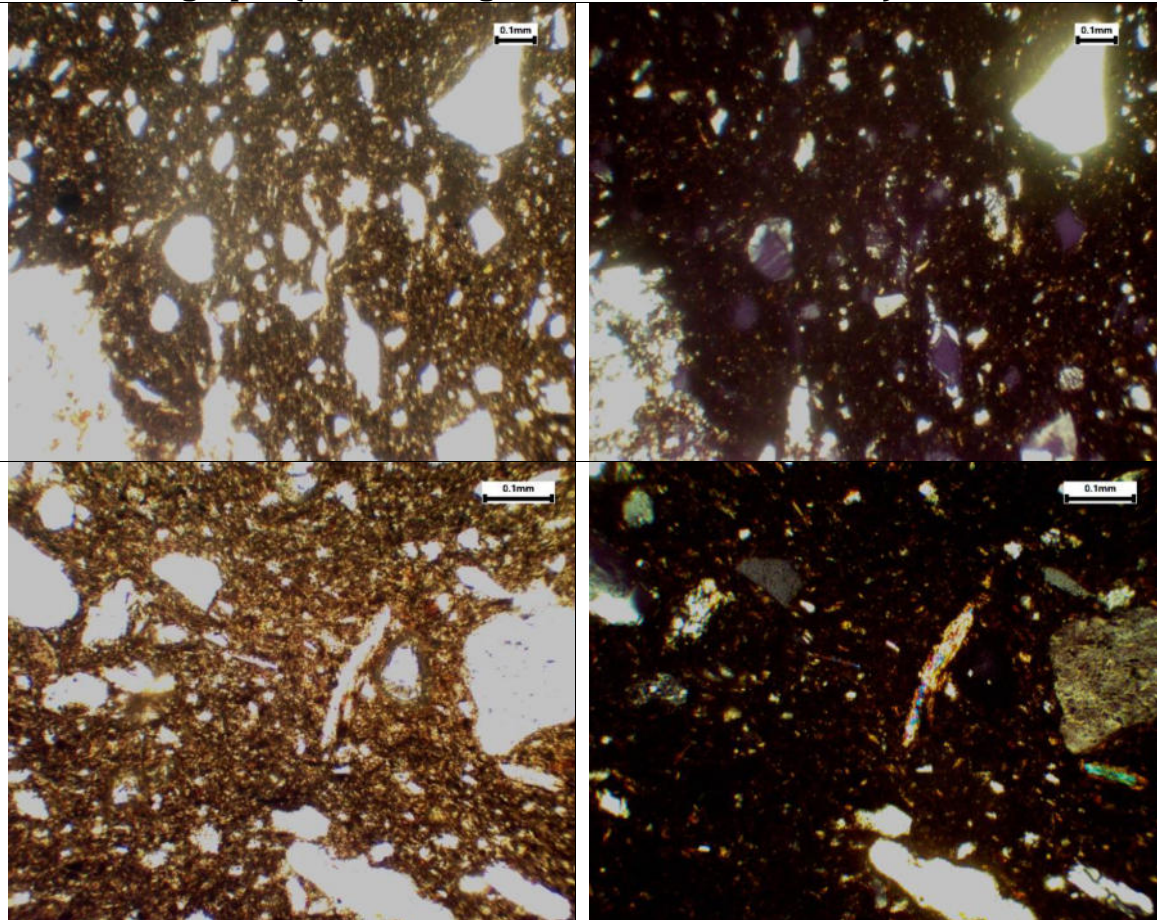
Matrix 67-75%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	dark grey / grey and golden brown	none

Voids 3-5%

Type and size	Distinct characteristics
macro/meso vughs, vesicles, channels	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP93 MFEA Museum Number: K.2055:324 Site: Zhujiashai	Fabric (not grouped): Semi-coarse, Quartz-Mica-Feldspar with rare Grog fragments				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body sherd with two drilled holes; fired in oxidising atmosphere; polished and painted black; max. wall thickness 5.5 mm. MICROSCOPIC: Non-plastic inclusions 10-15% <table border="1"> <thead> <tr> <th>Coarse 15%</th><th>Fine 85%</th></tr> </thead> <tbody> <tr> <td> - quartz (eq, el; ang – rnd; FSa-MSa) 50% - biotite and muscovite (lamellae; FSa-MSa) 35% - plagioclase feldspar (eq; ang – rnd; FSa-MSa) 14.5% - grog (at least two inclusions can be identified with quartz-mica-feldspar inclusions; eq; s-rnd; MSa-CSa) 0.5% </td><td> - mica 60% - quartz 39% - feldspar < 1% </td></tr> </tbody> </table>		Coarse 15%	Fine 85%	- quartz (eq, el; ang – rnd; FSa-MSa) 50% - biotite and muscovite (lamellae; FSa-MSa) 35% - plagioclase feldspar (eq; ang – rnd; FSa-MSa) 14.5% - grog (at least two inclusions can be identified with quartz-mica-feldspar inclusions; eq; s-rnd; MSa-CSa) 0.5%	- mica 60% - quartz 39% - feldspar < 1%
Coarse 15%	Fine 85%				
- quartz (eq, el; ang – rnd; FSa-MSa) 50% - biotite and muscovite (lamellae; FSa-MSa) 35% - plagioclase feldspar (eq; ang – rnd; FSa-MSa) 14.5% - grog (at least two inclusions can be identified with quartz-mica-feldspar inclusions; eq; s-rnd; MSa-CSa) 0.5%	- mica 60% - quartz 39% - feldspar < 1%				

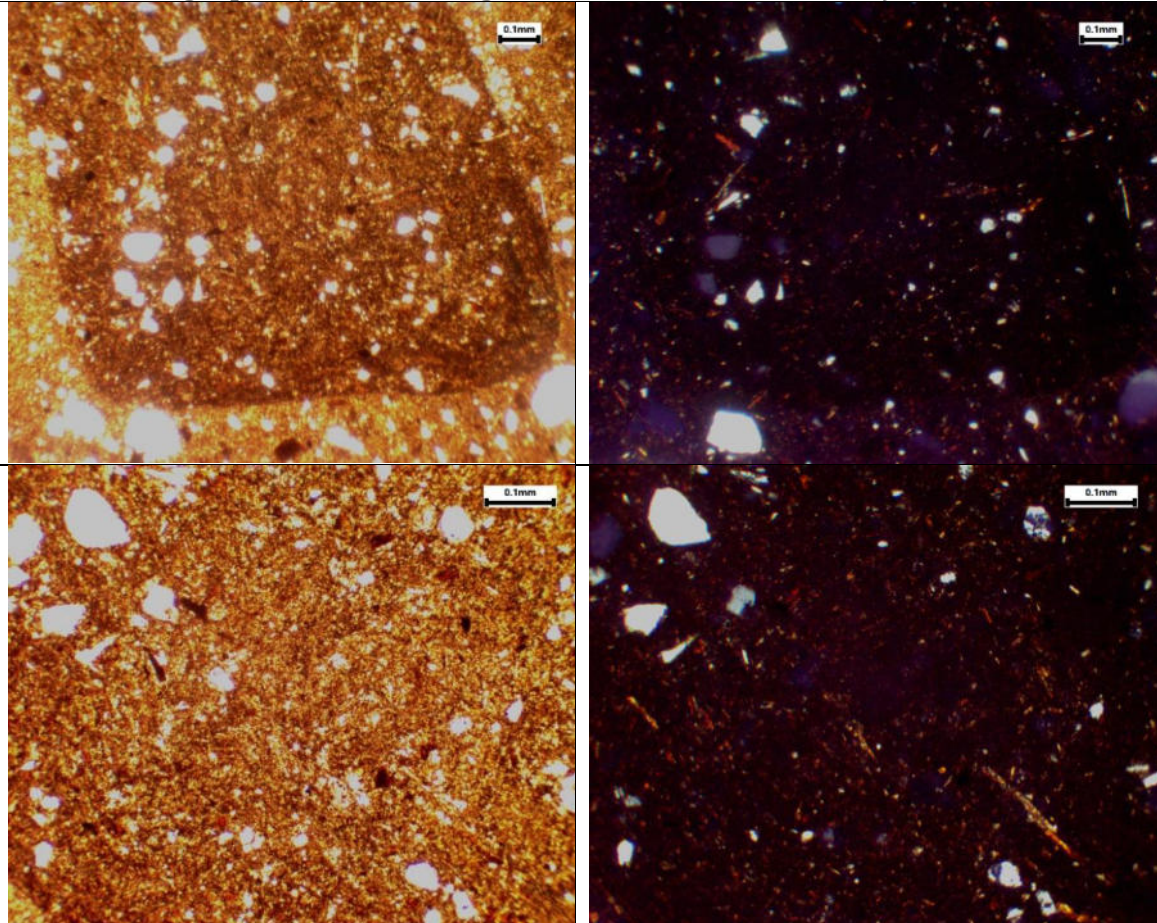
Matrix 82-87%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	well	active	brown/ dark golden brown	FSa-MSa clay pellets, >10% of the matrix; drilled holes from repair?

Voids 3%

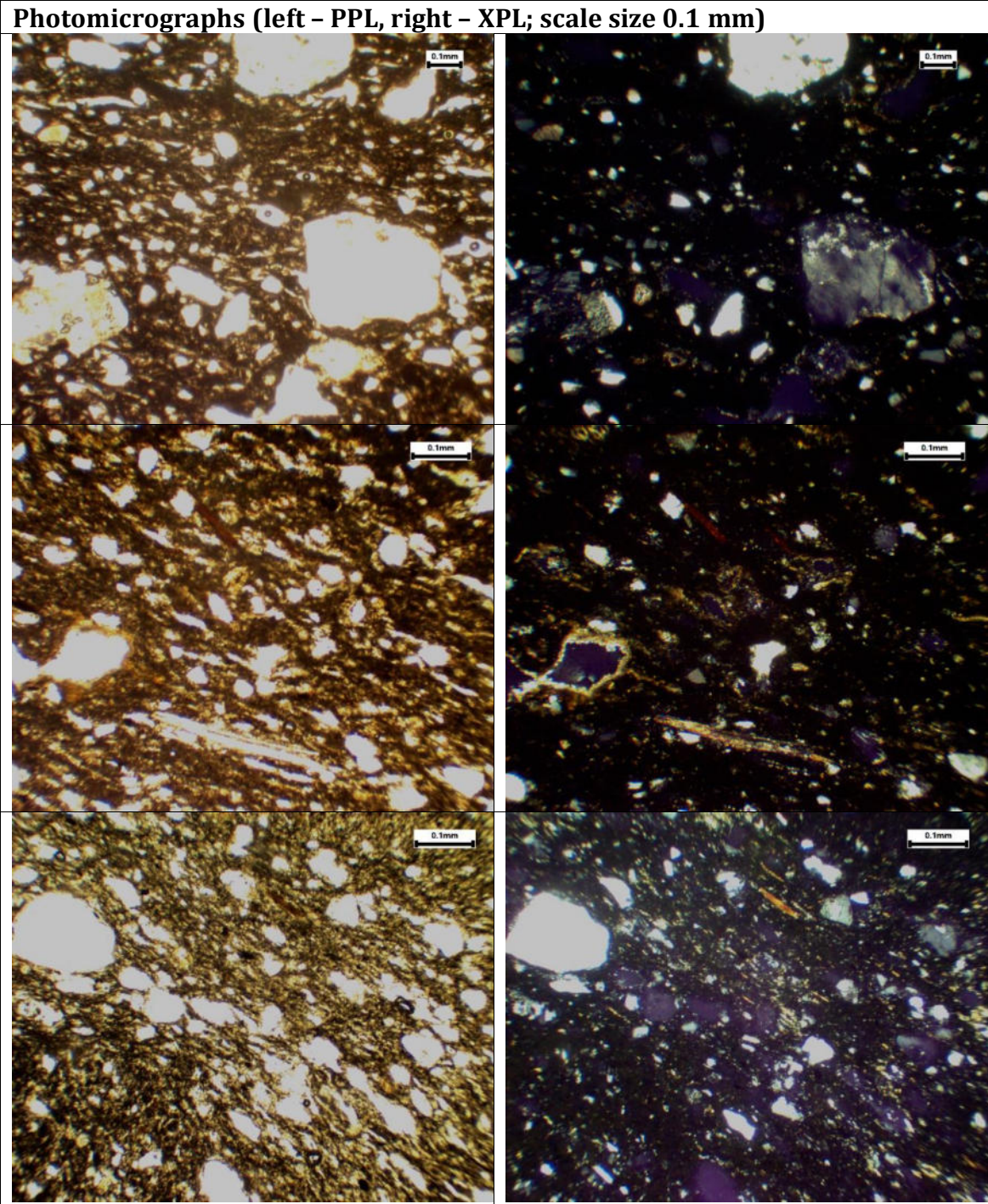
Type and size	Distinct characteristics
macro/ meso vughs and vesicles	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP94 MFEA Museum Number: K.2055:587 Site: Zhujiashai	Fabric (not grouped): Semi-coarse, Quartz dominant with Feldspar fragments										
Sherd photo	Fabric photo										
											
	Thin section scan 										
Description											
MACROSCOPIC: Body sherd; reduced core, oxidised margins; polished, painted black and red; max. wall thickness 5 mm.											
MICROSCOPIC: Non-plastic inclusions 30%											
<table><tr><td colspan="2">Coarse 15%</td><td colspan="2">Fine 85%</td></tr><tr><td> - quartz (eq, el; ang – rnd; FSa-MSa) 70% - plagioclase feldspar (eq; ang – rnd; MSa) 20% - quartz-mica schist (eq, s-rnd, MSa) 1% </td><td></td><td> - quartz 60% - mica 40% </td><td></td></tr></table>		Coarse 15%		Fine 85%		- quartz (eq, el; ang – rnd; FSa-MSa) 70% - plagioclase feldspar (eq; ang – rnd; MSa) 20% - quartz-mica schist (eq, s-rnd, MSa) 1%		- quartz 60% - mica 40%			
Coarse 15%		Fine 85%									
- quartz (eq, el; ang – rnd; FSa-MSa) 70% - plagioclase feldspar (eq; ang – rnd; MSa) 20% - quartz-mica schist (eq, s-rnd, MSa) 1%		- quartz 60% - mica 40%									
Matrix 60%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>poor</td><td>inactive</td><td>dark grey /</td><td>vitified matrix but the</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	poor	inactive	dark grey /	vitified matrix but the
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	poor	inactive	dark grey /	vitified matrix but the							

	very dark grey almost black	sherd is not overfired; natural or dispersed secondary calcite?
Voids 10%		
Type and size	Distinct characteristics	
macro/meso channels, vughs and vesicles	voids are mostly oriented along the long edge; secondary calcite accumulation on the void margins	



Sample code: CNP95 MFEA Museum Number: K.2055:608 Site: Zhujiashai	Fabric group: 2A; Fine, Mica-Quartz-Feldspar
Sherd photo	Fabric photo
	
	Thin section scan 
Description	
MACROSCOPIC: Body sherd; reduced core, oxidised margins; polished, painted black and red(?); max. wall thickness 6.6 mm.	
MICROSCOPIC: Non-plastic inclusions 20%	
Coarse 1%	Fine 99%
- quartz (eq, el; ang – rnd; FSa-MSa) 85% - plagioclase feldspar (eq; s-ang – s-rnd; FSa-MSa) 10% - muscovite (lamellae; FSa) 5%	- mica 50% - quartz 25% - calcite 20% - feldspar 5%

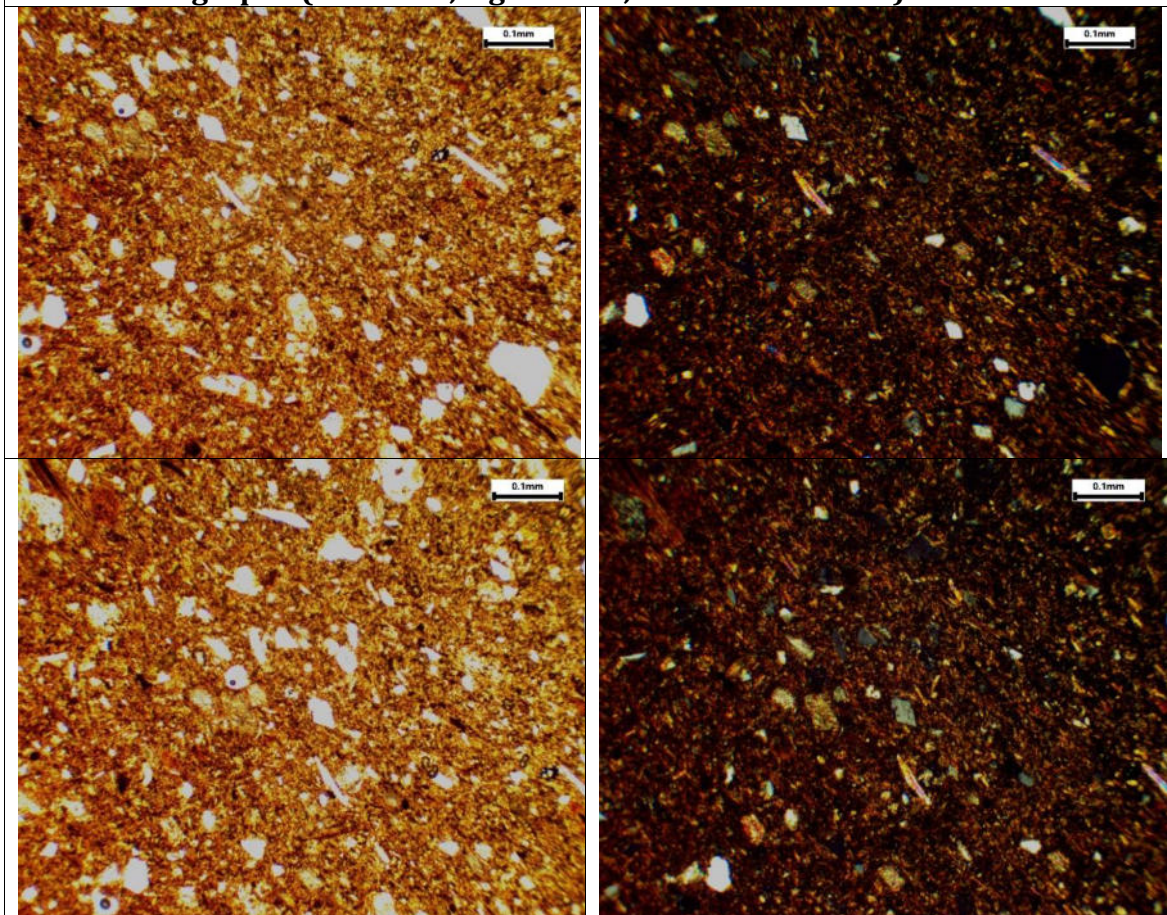
Matrix 75%

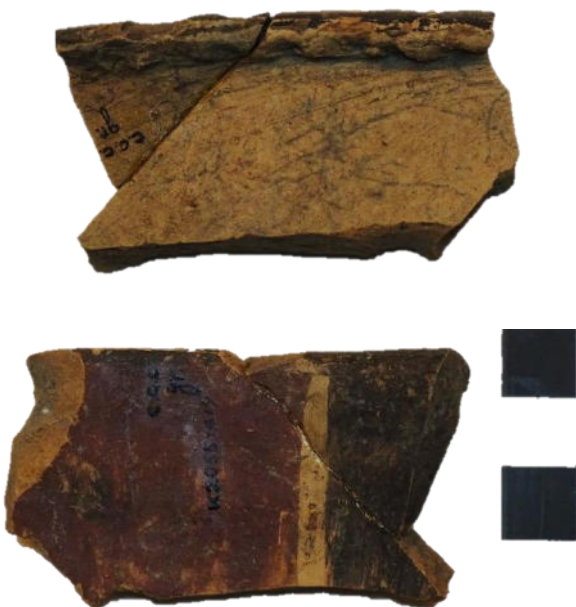
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	red brown and grey / golden brown	MSa clay pellets, <1% of the matrix

Voids 5%

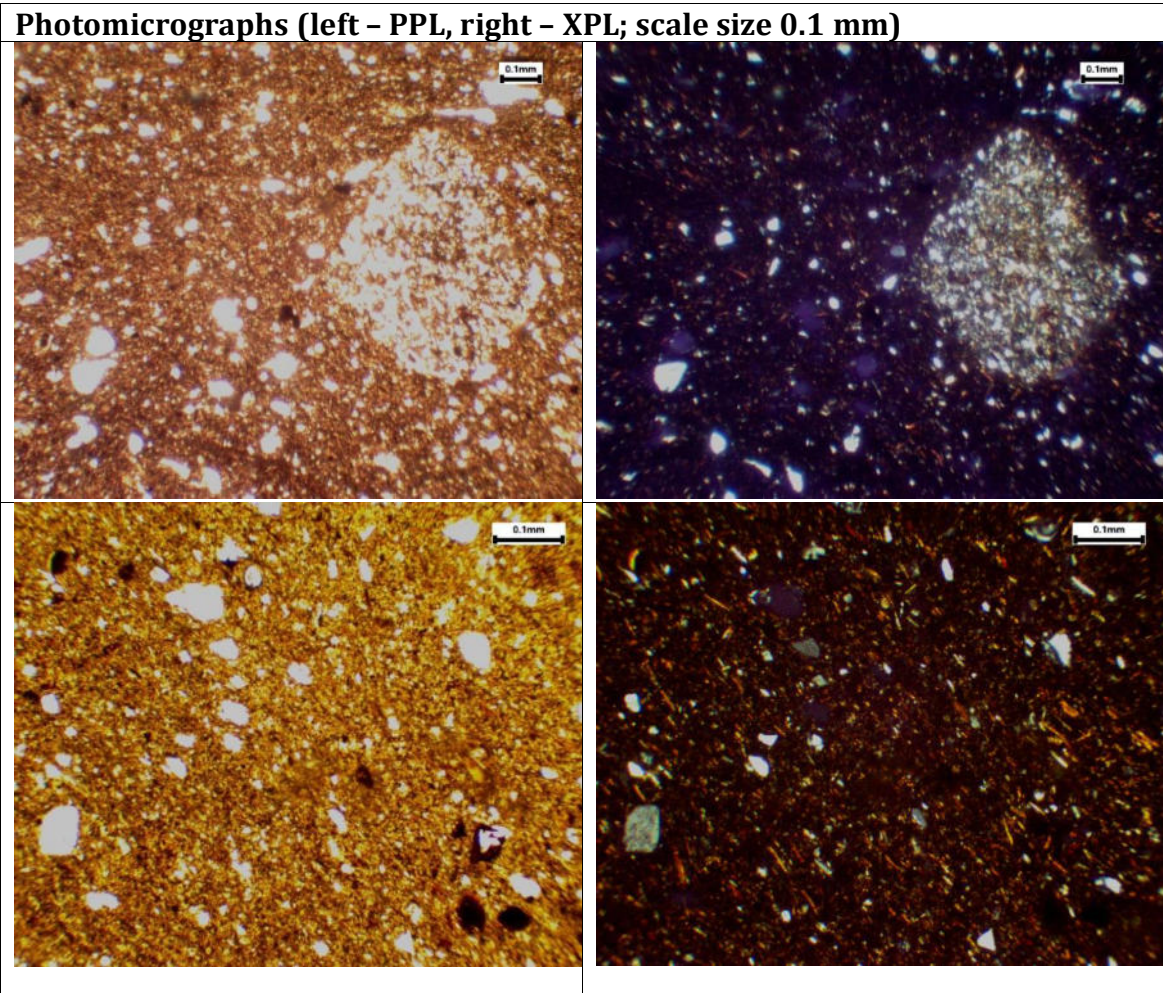
Type and size	Distinct characteristics
macro/ meso vughs, vesicles	none

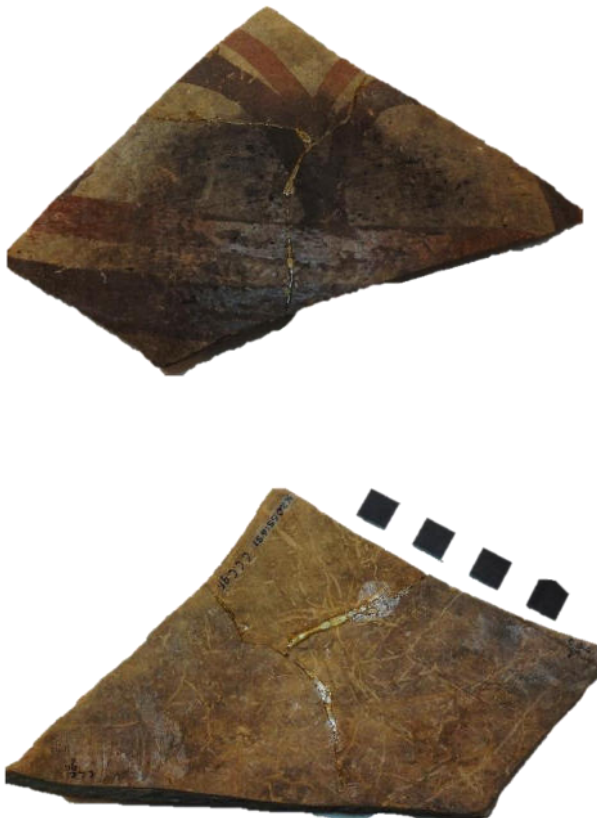
Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



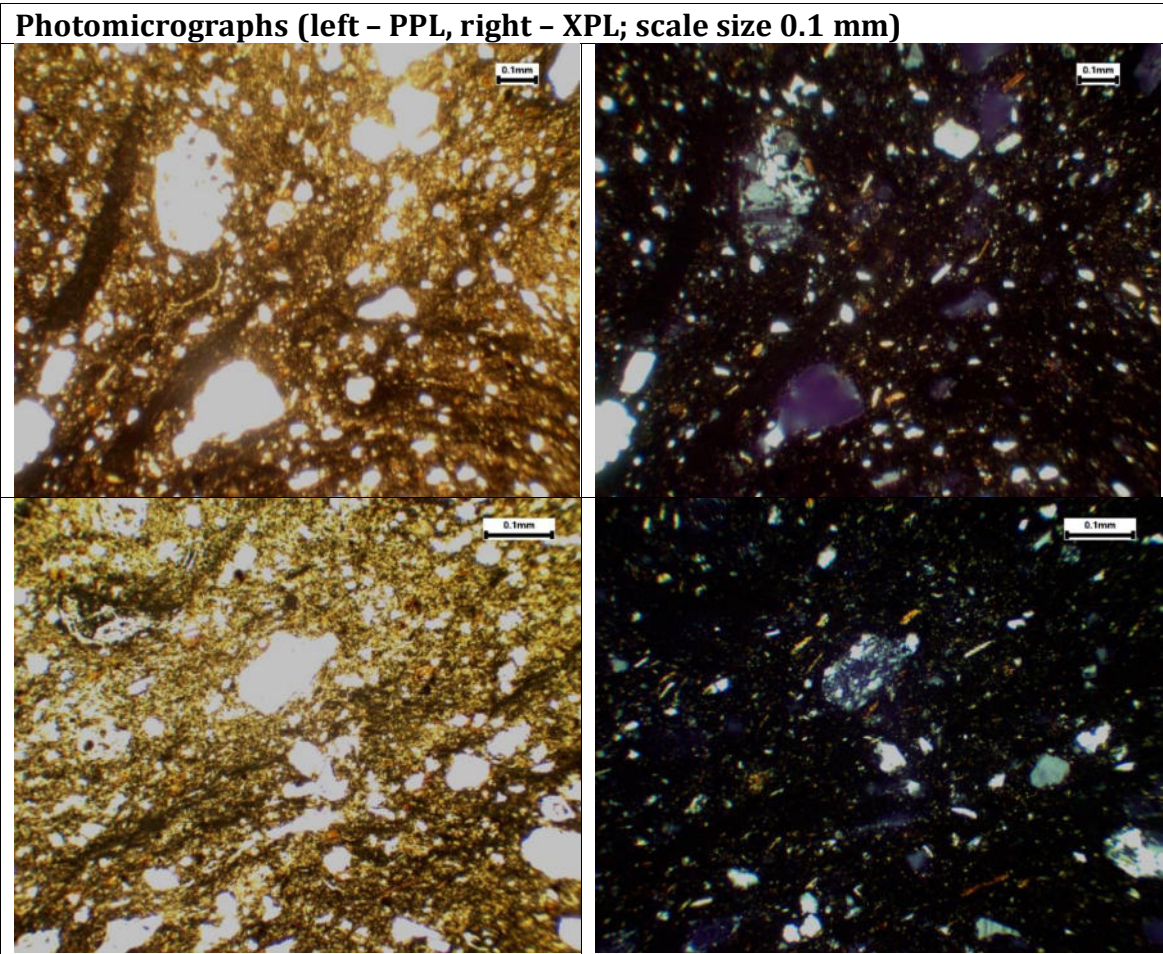
Sample code: CNP96 MFEA Museum Number: K.2055:619 Site: Zhujiashai		Fabric group: 2A; Fine, Mica-Quartz-Feldspar		
Sherd photo		Fabric photo		
				
		Thin section scan		
				
Description				
MACROSCOPIC: Rim sherd; reduced core, oxidised margins; polished, painted black and red on the inside; max. wall thickness 9.1 mm.				
MICROSCOPIC: Non-plastic inclusions 20%				
Coarse 1-3%		Fine 97-99%		
- quartz (eq, el; ang – s-rnd; FSa-CSa) 69.5% - siltstone (eq; s-rnd; MSa) 20% - haematite? with quartz inclusions (eq, el; rnd; MSa) 10% - granitic rock fragment – combination of quartz and plagioclase feldspar (eq; ang; MSa) 0.5%		- mica 60% - quartz 40%		
Matrix 75-77%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	moderate	grey brown / dark golden	dispersed natural or secondary

	brown	calcite?
Voids 3-5%		
Type and size	Distinct characteristics	
macro/ meso vughs and vesicles	few voids are filled with secondary calcite	



Sample code: CNP97 MFEA Museum Number: K.2055:651 Site: Zhujiashai	Fabric group: 2A; Fine, Mica-Quartz-Feldspar										
Sherd photo	Fabric photo										
											
	Thin section scan 										
Description											
MACROSCOPIC: Body sherd; reduced core, thin oxidised margins; polished, painted black and red; max. wall thickness 7.5 mm.											
MICROSCOPIC: Non-plastic inclusions 20%											
<table><tr><td colspan="2">Coarse 3-5%</td><td colspan="2">Fine 95-97%</td></tr><tr><td colspan="2"> - quartz (eq, el; ang - s-rnd; FSa-CSa?) 65% - plagioclase feldspar (eq; s-ang – rnd; MSa) 34.5% - clinopyroxene? (el; s-ang; MSa) 0.5% </td><td colspan="2"> - quartz 60% - mica 40% </td></tr></table>		Coarse 3-5%		Fine 95-97%		- quartz (eq, el; ang - s-rnd; FSa-CSa?) 65% - plagioclase feldspar (eq; s-ang – rnd; MSa) 34.5% - clinopyroxene? (el; s-ang; MSa) 0.5%		- quartz 60% - mica 40%			
Coarse 3-5%		Fine 95-97%									
- quartz (eq, el; ang - s-rnd; FSa-CSa?) 65% - plagioclase feldspar (eq; s-ang – rnd; MSa) 34.5% - clinopyroxene? (el; s-ang; MSa) 0.5%		- quartz 60% - mica 40%									
Matrix 75-77%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>heterogeneous</td><td>moderate</td><td>inactive core,</td><td>red brown to</td><td>CSa clay pellets,</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	heterogeneous	moderate	inactive core,	red brown to	CSa clay pellets,
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
heterogeneous	moderate	inactive core,	red brown to	CSa clay pellets,							

	moderately active margins	dark grey / dark grey	3-5% of the matrix
Voids 3-5%			
Type and size	Distinct characteristics		
macro/ meso vughs, vesicles, channels	many voids have vitrified and charred margins		



Sample code: CNP98 MFEA Museum Number: K.2055:711 Site: Zhujiazhai	Fabric group: 2A; Fine, Mica-Quartz-Feldspar								
Sherd photo	Fabric photo								
									
	Thin section scan 								
Description									
MACROSCOPIC:									
Rim sherd; reduced core, thin oxidised margins; polished and painted black; max. wall thickness 6.4 mm.									
MICROSCOPIC:									
Non-plastic inclusions 20%									
<table> <thead> <tr> <th>Coarse 1%</th><th>Fine 99%</th></tr> </thead> <tbody> <tr> <td>• quartz (eq, el; ang – rnd; FSa-MSa) 80%</td><td>• mica 70%</td></tr> <tr> <td>• opaque inclusions - haematite or highly fired mudstone? (eq, el; s-rnd – rnd; CSa) 19%</td><td>• quartz 30%</td></tr> <tr> <td>• sedimentary rock fragment - sandstone in carbonate cement? (eq, el; s-rnd; CSa) 1%</td><td>• feldspar 5%</td></tr> </tbody> </table>	Coarse 1%	Fine 99%	• quartz (eq, el; ang – rnd; FSa-MSa) 80%	• mica 70%	• opaque inclusions - haematite or highly fired mudstone? (eq, el; s-rnd – rnd; CSa) 19%	• quartz 30%	• sedimentary rock fragment - sandstone in carbonate cement? (eq, el; s-rnd; CSa) 1%	• feldspar 5%	
Coarse 1%	Fine 99%								
• quartz (eq, el; ang – rnd; FSa-MSa) 80%	• mica 70%								
• opaque inclusions - haematite or highly fired mudstone? (eq, el; s-rnd – rnd; CSa) 19%	• quartz 30%								
• sedimentary rock fragment - sandstone in carbonate cement? (eq, el; s-rnd; CSa) 1%	• feldspar 5%								

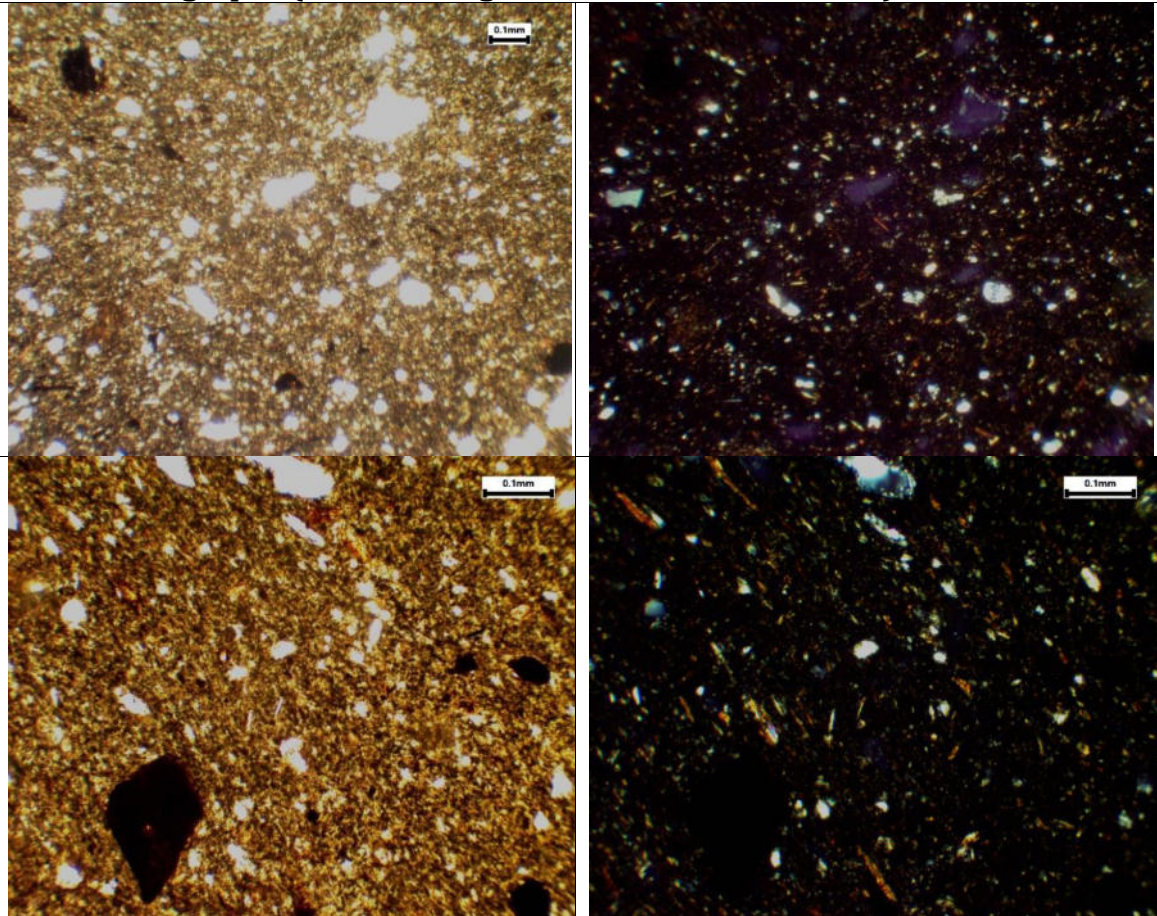
Matrix 75%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	moderate	grey / golden grey	none

Voids 5%

Type and size	Distinct characteristics
macro channels, vughs, vesicles	secondary calcite or re-deposited natural calcite in the voids?

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP99 MFEA Museum Number: K.2055:784 Site: Zhujiashai	Fabric group: 2A; Fine, Mica-Quartz-Feldspar				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC: Body and handle sherd; reduced core, oxidised margins; above the handle inside surface is dark brown and the outside is yellow, inside surface below the handle has a bright orange colour; polished and painted black; max. wall thickness 5 mm.					
MICROSCOPIC: Non-plastic inclusions 20%					
Coarse 0%					

Voids 5-10%

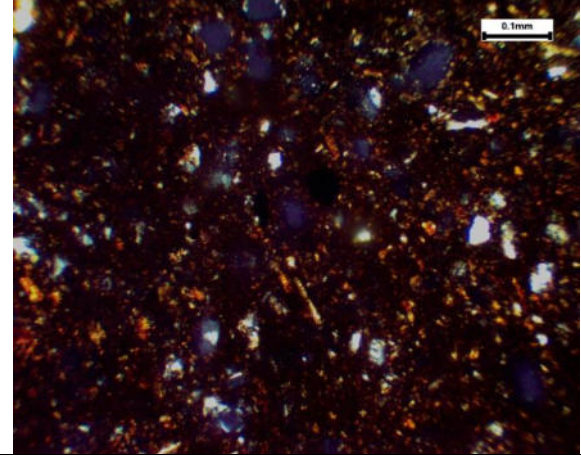
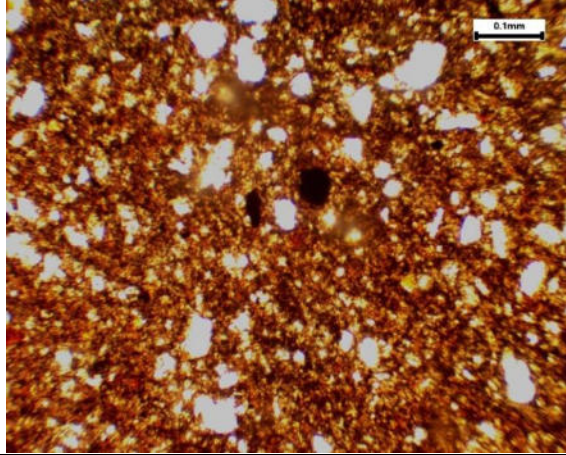
Type and size

meso vughs, vesicles, channels

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP100 MFEA Museum Number: K.2055:796 Site: Zhujiashai	Fabric group: 2B; Fine, Mica-Quartz-Feldspar, higher inclusion frequency and coarse fraction than Fabric group 2A				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Rim and handle sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 5.5 mm. MICROSCOPIC: Non-plastic inclusions 30% <table border="1"> <thead> <tr> <th>Coarse 5-10%</th><th>Fine 90-95%</th></tr> </thead> <tbody> <tr> <td> - quartz (eq, el; ang – s-rnd; FSa-MSa) 84.5% - plagio-/ orthoclase, microcline feldspar (eq; ang – s-rnd; FSa-MSa) 15% - chert (eq; rnd; MSa) 0.5% </td><td> - mica 50% - quartz 40% - calcite 5% - feldspar 5% - amphibole? </td></tr> </tbody> </table>		Coarse 5-10%	Fine 90-95%	- quartz (eq, el; ang – s-rnd; FSa-MSa) 84.5% - plagio-/ orthoclase, microcline feldspar (eq; ang – s-rnd; FSa-MSa) 15% - chert (eq; rnd; MSa) 0.5%	- mica 50% - quartz 40% - calcite 5% - feldspar 5% - amphibole?
Coarse 5-10%	Fine 90-95%				
- quartz (eq, el; ang – s-rnd; FSa-MSa) 84.5% - plagio-/ orthoclase, microcline feldspar (eq; ang – s-rnd; FSa-MSa) 15% - chert (eq; rnd; MSa) 0.5%	- mica 50% - quartz 40% - calcite 5% - feldspar 5% - amphibole?				

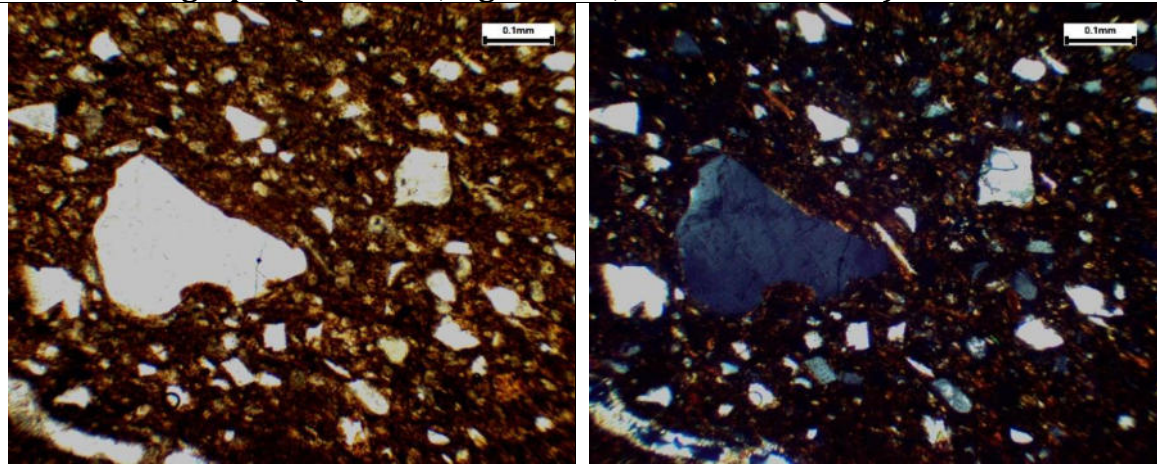
Matrix 60-65%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	active	brown / slightly golden brown	MSa-CSa clay pellets, 1% of the matrix

Voids 5-10%

Type and size	Distinct characteristics
mega planar voids, macro/ meso vughs and channels	Accumulations of secondary calcite on margins and in mega planar voids; mega planar voids indicate coil joins areas.

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP101 MFEA Museum Number: K.2119:172 Site: Zhujiashai	Fabric group: 5A; Coarse, Quartz and Metamorphic rock fragments				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Rim and neck sherd; fired in oxidising atmosphere, buff core, orange margins; rim is decorated with impressions, wall decoration could not be identified, possibly diagonal basket impression; max. wall thickness 5.2 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 10%</th> <th>Fine 90%</th> </tr> </thead> <tbody> <tr> <td> - quartz (eq, el; s-rnd; MSa-CSa) 45.5% - metamorphic rock fragments - quartz-mica schist and slate (?) with a quartz-mica vein(?) (eq, el; s-rnd; MSa-CSa) 45% - granitic rock fragments – combination of quartz, plagioclase biotite and/or muscovite (eq; s-rnd; MSa) 5% - plagioclase feldspar (eq; s-ang; CSa) 4% - biotite (lamellae; FSa) 0.5% </td> <td> - mica 60% - quartz 40% </td> </tr> </tbody> </table>		Coarse 10%	Fine 90%	- quartz (eq, el; s-rnd; MSa-CSa) 45.5% - metamorphic rock fragments - quartz-mica schist and slate (?) with a quartz-mica vein(?) (eq, el; s-rnd; MSa-CSa) 45% - granitic rock fragments – combination of quartz, plagioclase biotite and/or muscovite (eq; s-rnd; MSa) 5% - plagioclase feldspar (eq; s-ang; CSa) 4% - biotite (lamellae; FSa) 0.5%	- mica 60% - quartz 40%
Coarse 10%	Fine 90%				
- quartz (eq, el; s-rnd; MSa-CSa) 45.5% - metamorphic rock fragments - quartz-mica schist and slate (?) with a quartz-mica vein(?) (eq, el; s-rnd; MSa-CSa) 45% - granitic rock fragments – combination of quartz, plagioclase biotite and/or muscovite (eq; s-rnd; MSa) 5% - plagioclase feldspar (eq; s-ang; CSa) 4% - biotite (lamellae; FSa) 0.5%	- mica 60% - quartz 40%				

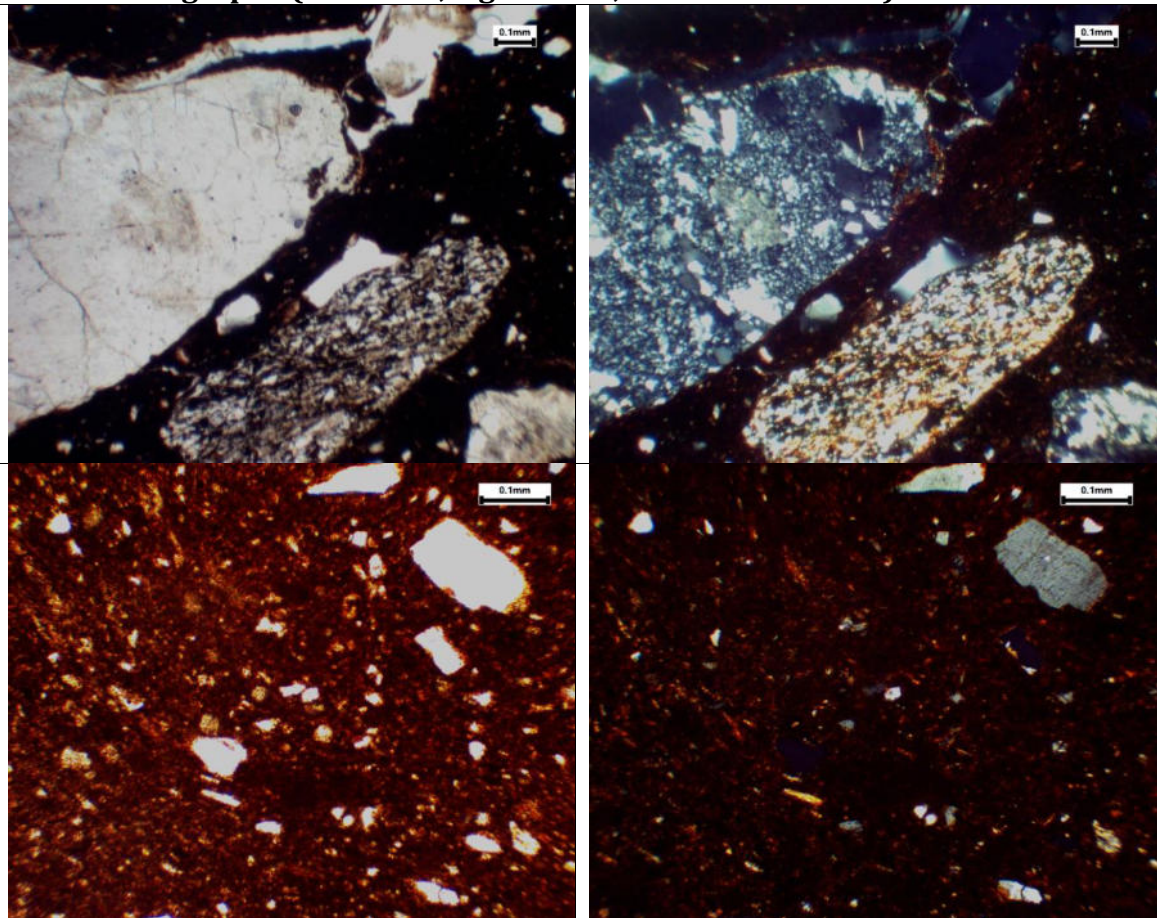
Matrix 77-79%

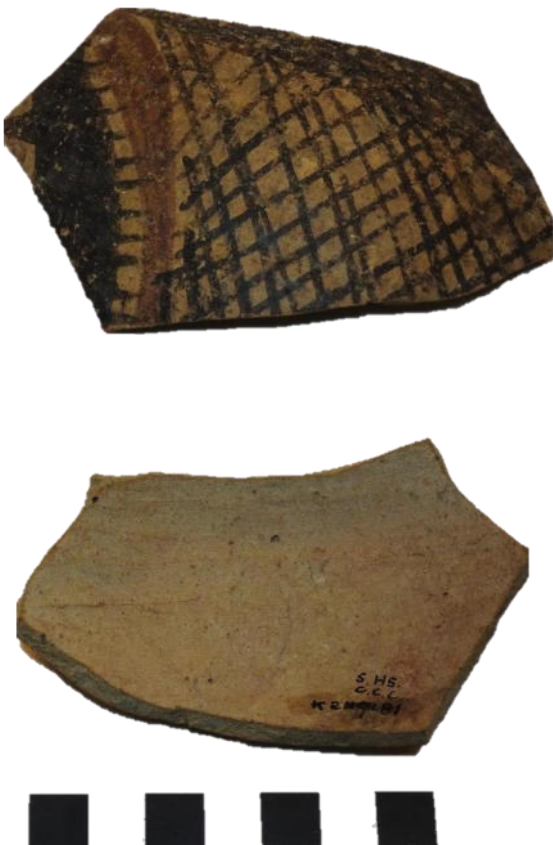
Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	reddish brown and grey brown/ golden brown	FSa-CSa clay pellets, 1-3% of the matrix

Voids 1-3%

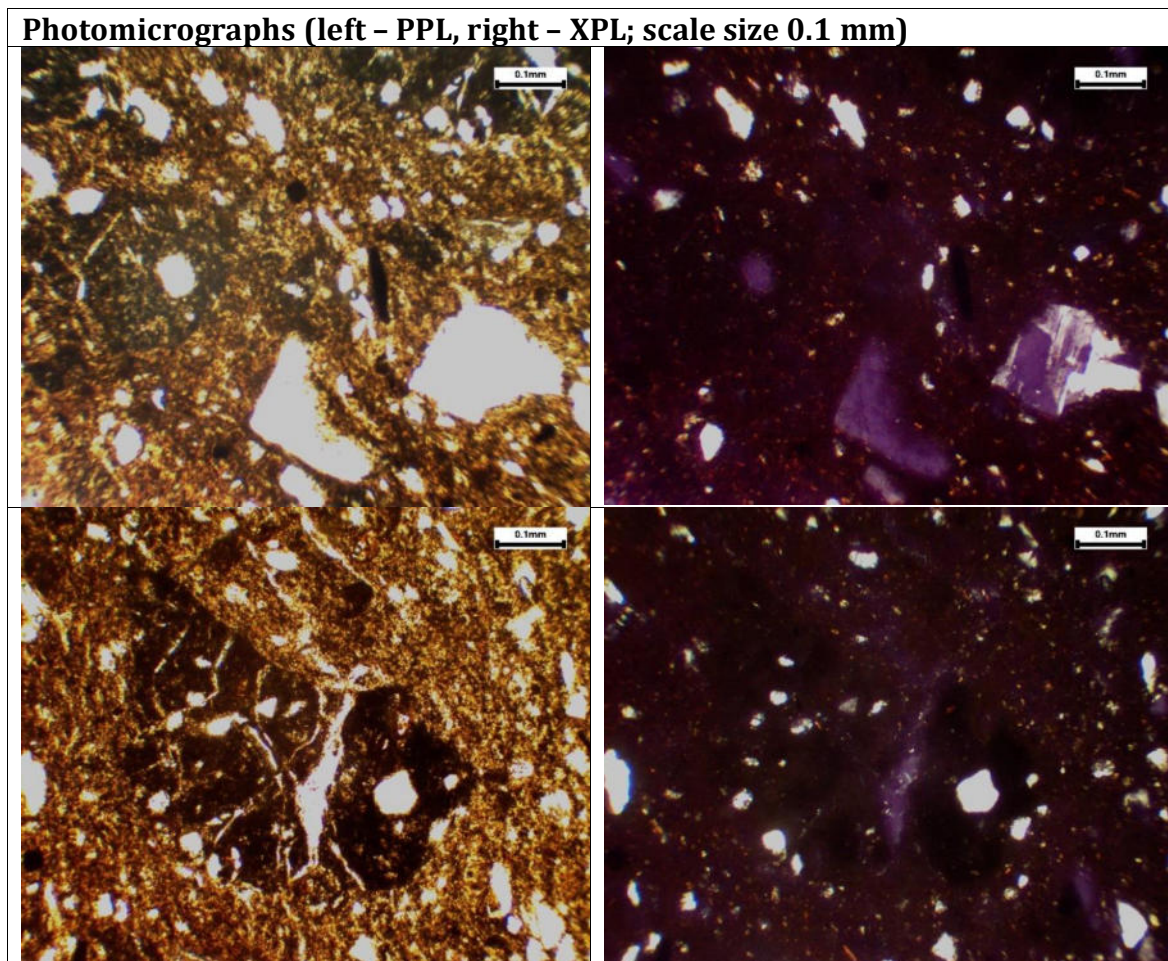
Type and size	Distinct characteristics
macro/ meso vesicles, vughs?	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP102 MFEA Museum Number: K.2119:81 Site: Zhujiashai	Fabric (not grouped): Semi-coarse, Quartz and Grey Mudstone(?) fragments
Sherd photo	Fabric photo
	
	Thin section scan
Description	
MACROSCOPIC: Body sherd; reduced core, thin oxidised margins; polished, painted black and red; max. wall thickness 4.5 mm.	
MICROSCOPIC: Non-plastic inclusions 20%	
Coarse 5-10%	Fine 90-95%
- quartz (eq, el; s-ang - s-rnd; FSa-CSa) type 55% - high fired grey mudstone with inclusions or patches of vitrified matrix? (eq, el; rnd; MSa-CSa) 40% - ortho-/ plagioclase feldspar (eq, s-ang - s-rnd, FSa) 5%	- quartz 79% - mica 20% - feldspar 1%

Matrix 75%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	moderate	inactive	dark brown/ dark grey	dispersed calcite in the outer margin of the fabric? FSa-MSa clay pellets, >10% of the matrix
Voids 5%				
Type and size			Distinct characteristics	
meso vughs vesicles, channels			none	



Sample code: CNP103 MFEA Museum Number: K.2119:144 Site: Zhujiashai	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description MACROSCOPIC: Neck and shoulder sherd; reduced core with oxidised interior surface; decorated with vertical and cross-cord impression and appliqué; max. wall thickness 11 mm.					
MICROSCOPIC: Non-plastic inclusions 30%					
<table> <thead> <tr> <th>Coarse 20%</th><th>Fine 80%</th></tr> </thead> <tbody> <tr> <td> - granitic rock fragments – combination of quartz, plagioclase/ microcline feldspar, biotite/ muscovite (eq; ang – s-ang; CSa-FGr) 40% - quartz (eq, el; s-ang; FSa-CSa) 40% - plagioclase feldspar (eq; s-ang; MSa-CSa) 16% </td><td> - quartz 60% - mica 40% - feldspar? </td></tr> </tbody> </table>		Coarse 20%	Fine 80%	- granitic rock fragments – combination of quartz, plagioclase/ microcline feldspar, biotite/ muscovite (eq; ang – s-ang; CSa-FGr) 40% - quartz (eq, el; s-ang; FSa-CSa) 40% - plagioclase feldspar (eq; s-ang; MSa-CSa) 16%	- quartz 60% - mica 40% - feldspar?
Coarse 20%	Fine 80%				
- granitic rock fragments – combination of quartz, plagioclase/ microcline feldspar, biotite/ muscovite (eq; ang – s-ang; CSa-FGr) 40% - quartz (eq, el; s-ang; FSa-CSa) 40% - plagioclase feldspar (eq; s-ang; MSa-CSa) 16%	- quartz 60% - mica 40% - feldspar?				

- biotite (lamellae, MSa) 2%
- siltstone (eq; rnd; MSa) 2%

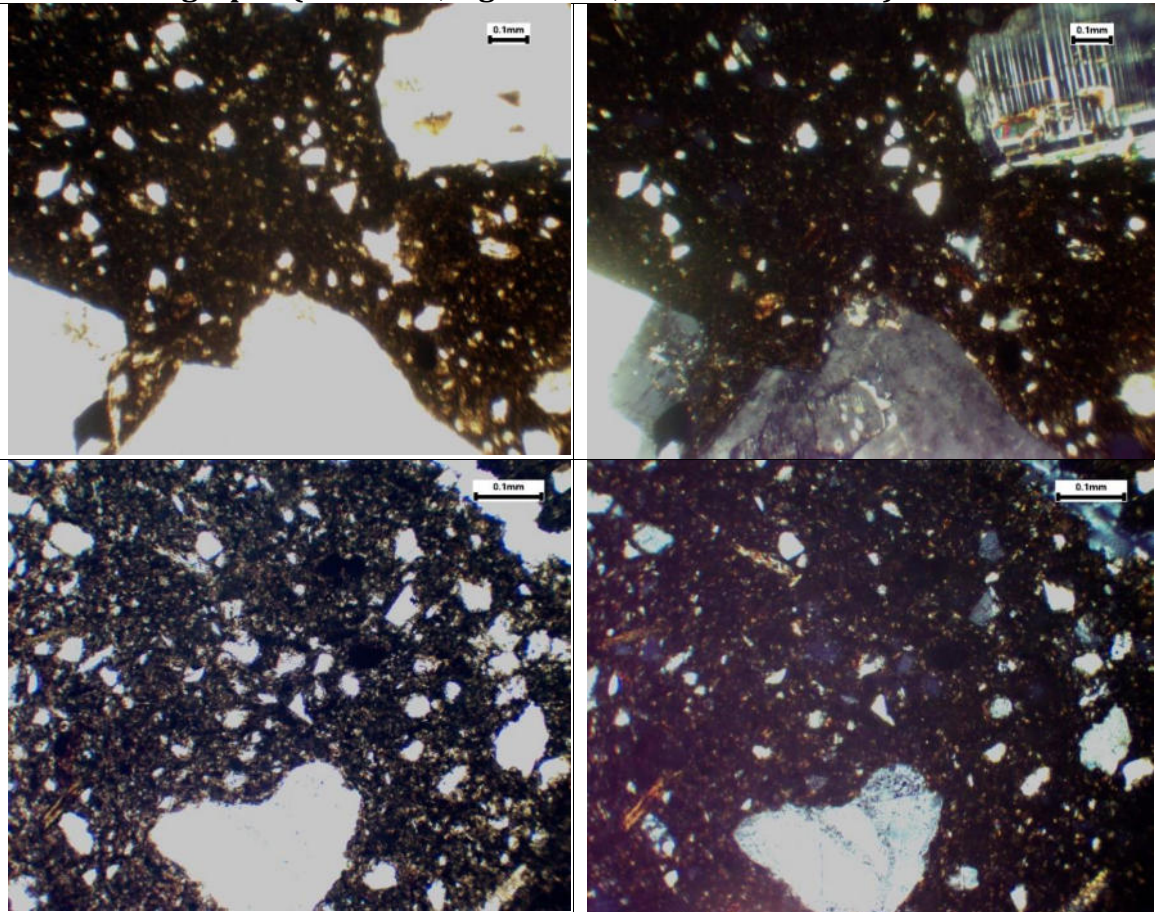
Matrix 67-69%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	moderate	grey brown/ dark grey brown	none

Voids 1-3%

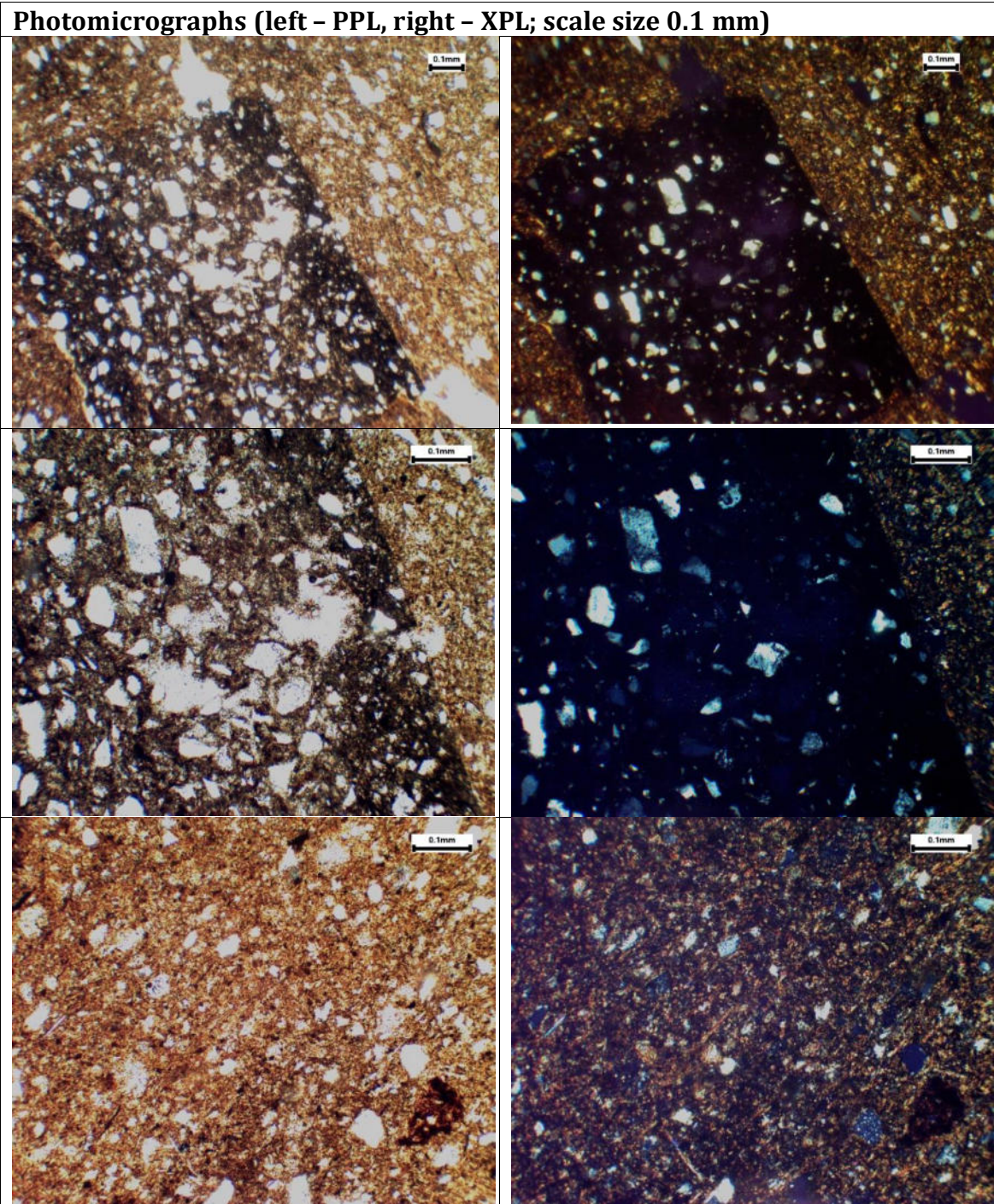
Type and size	Distinct characteristics
macro/ meso vughs, channels	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP104 MFEA Museum Number: K.2119:154 Site: Zhujiashai	Fabric group: 6; Coarse, Grog Site: Zhujiashai										
Sherd photo	Fabric photo										
	Thin section scan										
Description											
MACROSCOPIC: Body sherd; fired in oxidising atmosphere, uneven oxidation, buff core, thin red exterior margin; decorated with appliqué; max. wall thickness 8 mm.											
MICROSCOPIC: Non-plastic inclusions 20-25%											
<table><tr><td colspan="2">Coarse 10%</td><td colspan="2">Fine 90%</td></tr><tr><td colspan="2"> - grog from higher fired fabric with quartz-biotite-plagioclase (eq, el; ang – s-rnd; MSa-CSa) 99.4% - sandstone in carbonate cement (eq; ang; MSa) 0.5% - plagioclase feldspar (eq; ang; FSa) 0.1% </td><td colspan="2"> - mica 35% - calcite 35% - quartz 25% - feldspar 1-5% </td></tr></table>		Coarse 10%		Fine 90%		- grog from higher fired fabric with quartz-biotite-plagioclase (eq, el; ang – s-rnd; MSa-CSa) 99.4% - sandstone in carbonate cement (eq; ang; MSa) 0.5% - plagioclase feldspar (eq; ang; FSa) 0.1%		- mica 35% - calcite 35% - quartz 25% - feldspar 1-5%			
Coarse 10%		Fine 90%									
- grog from higher fired fabric with quartz-biotite-plagioclase (eq, el; ang – s-rnd; MSa-CSa) 99.4% - sandstone in carbonate cement (eq; ang; MSa) 0.5% - plagioclase feldspar (eq; ang; FSa) 0.1%		- mica 35% - calcite 35% - quartz 25% - feldspar 1-5%									
Matrix 72-77%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>moderate</td><td>active</td><td>reddish brown to</td><td>none</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	moderate	active	reddish brown to	none
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	moderate	active	reddish brown to	none							

	greyish light brown/ golden
Voids 1-3%	
Type and size	Distinct characteristics
macro/meso vughs and channels	none



Sample code: CNP105 MFEA Museum Number: K.2119:165 Site: Zhujiazhai	Fabric group: 4C; Coarse, Quartz-Granodiorite fragments				
Sherd photo 	Fabric photo 				
Description MACROSCOPIC: Rim and neck sherd; fired in oxidising atmosphere; decorated with vertical cord impression and appliqué; max. wall thickness 7.3 mm. MICROSCOPIC: Non-plastic inclusions 30% <table> <thead> <tr> <th>Coarse 30%</th> <th>Fine 70%</th> </tr> </thead> <tbody> <tr> <td> - quartz (eq, el; ang - rnd; FSa-CSa) 55% - granitic rock fragments - quartz, plagioclase feldspar and/or microcline, muscovite, biotite (eq, el; s-ang; CSa-FGr) 40% - ortho-?/ plagioclase feldspar (eq; ang; FSa) 5% </td> <td> - mica 55% - quartz 40% - feldspar 1-5% </td> </tr> </tbody> </table>		Coarse 30%	Fine 70%	- quartz (eq, el; ang - rnd; FSa-CSa) 55% - granitic rock fragments - quartz, plagioclase feldspar and/or microcline, muscovite, biotite (eq, el; s-ang; CSa-FGr) 40% - ortho-?/ plagioclase feldspar (eq; ang; FSa) 5%	- mica 55% - quartz 40% - feldspar 1-5%
Coarse 30%	Fine 70%				
- quartz (eq, el; ang - rnd; FSa-CSa) 55% - granitic rock fragments - quartz, plagioclase feldspar and/or microcline, muscovite, biotite (eq, el; s-ang; CSa-FGr) 40% - ortho-?/ plagioclase feldspar (eq; ang; FSa) 5%	- mica 55% - quartz 40% - feldspar 1-5%				

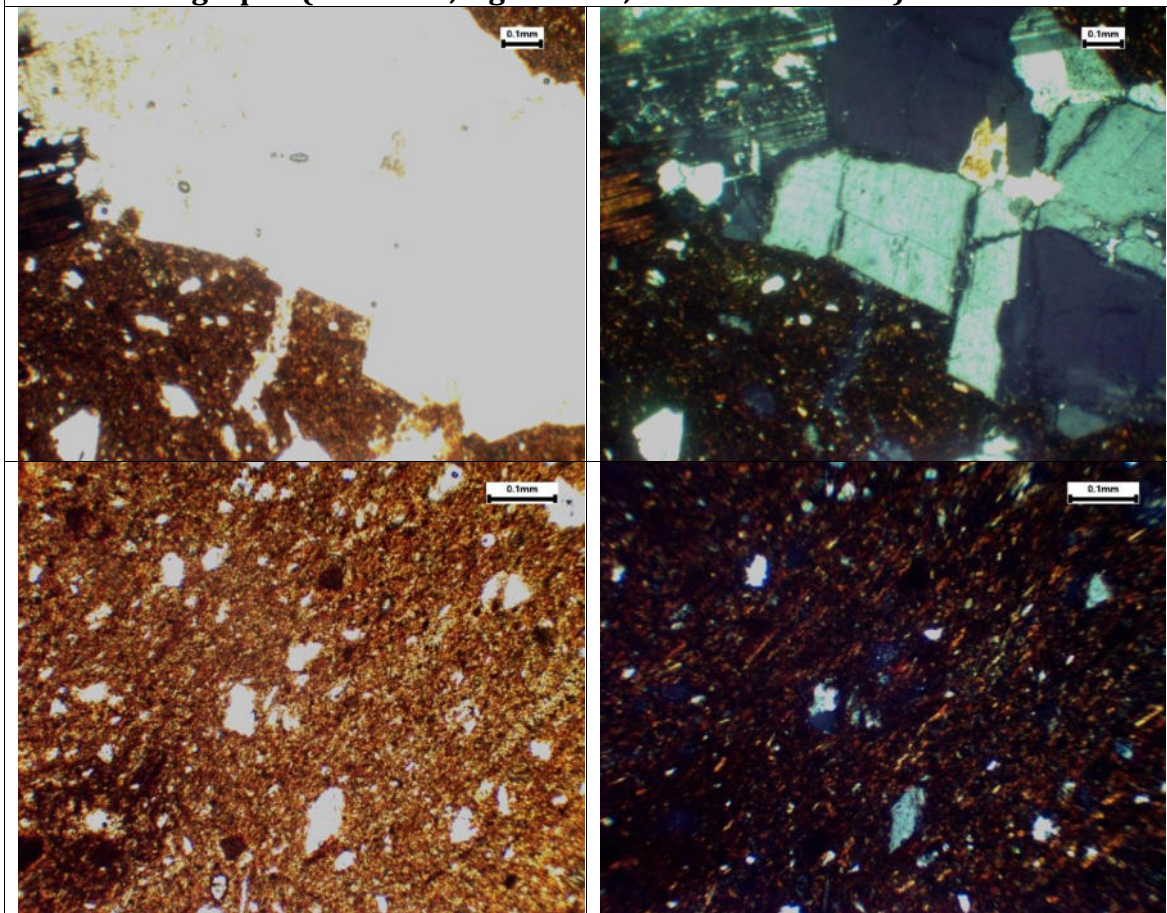
Matrix 67-69%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
fairly homogeneous	poor	active	greyish brown/ dark brown	FSa-MSa clay pellets, 3-5% of the matrix

Voids 1-3%

Type and size	Distinct characteristics
macro/ meso vughs and channels, vesicles	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP106 MFEA Museum Number: K.2119:171 Site: Zhujiashai	Fabric group: 5A; Coarse, Quartz and Metamorphic rock fragments												
Sherd photo 	Fabric photo  Thin section scan 												
Description MACROSCOPIC: Rim sherd; fired in oxidising atmosphere, but exterior surface is brown; decorated with impression on the rim and diagonal appliqué on the wall; max. wall thickness 6.4 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 15%</th> <th>Fine 85%</th> </tr> </thead> <tbody> <tr> <td>• quartz/ quartzite (eq, el; ang – rnd; FSa-CSa) 45%</td> <td>• mica 70%</td> </tr> <tr> <td>• metamorphic rock fragments – quartz-mica schist (eq, el; s-ang – s-rnd; MSa-CSa) 42%</td> <td>• quartz 30%</td> </tr> <tr> <td>• volcanic rock fragments - acicular quartz or feldspar in opaque cement (eq, el; rnd; CSa) 5%</td> <td></td> </tr> <tr> <td>• sedimentary rock fragments – siltstone and shale(?) (eq; rnd; MSa-CSa) 5%</td> <td></td> </tr> <tr> <td>• micritic calcite (eq; s-rnd; CSa) 1%</td> <td></td> </tr> </tbody> </table>		Coarse 15%	Fine 85%	• quartz/ quartzite (eq, el; ang – rnd; FSa-CSa) 45%	• mica 70%	• metamorphic rock fragments – quartz-mica schist (eq, el; s-ang – s-rnd; MSa-CSa) 42%	• quartz 30%	• volcanic rock fragments - acicular quartz or feldspar in opaque cement (eq, el; rnd; CSa) 5%		• sedimentary rock fragments – siltstone and shale(?) (eq; rnd; MSa-CSa) 5%		• micritic calcite (eq; s-rnd; CSa) 1%	
Coarse 15%	Fine 85%												
• quartz/ quartzite (eq, el; ang – rnd; FSa-CSa) 45%	• mica 70%												
• metamorphic rock fragments – quartz-mica schist (eq, el; s-ang – s-rnd; MSa-CSa) 42%	• quartz 30%												
• volcanic rock fragments - acicular quartz or feldspar in opaque cement (eq, el; rnd; CSa) 5%													
• sedimentary rock fragments – siltstone and shale(?) (eq; rnd; MSa-CSa) 5%													
• micritic calcite (eq; s-rnd; CSa) 1%													

- granitic rock fragment – combination of quartz and plagioclase feldspar (eq; s-ang; MSa) 1%
- plagioclase feldspar (eq; rnd; CSa) 1%

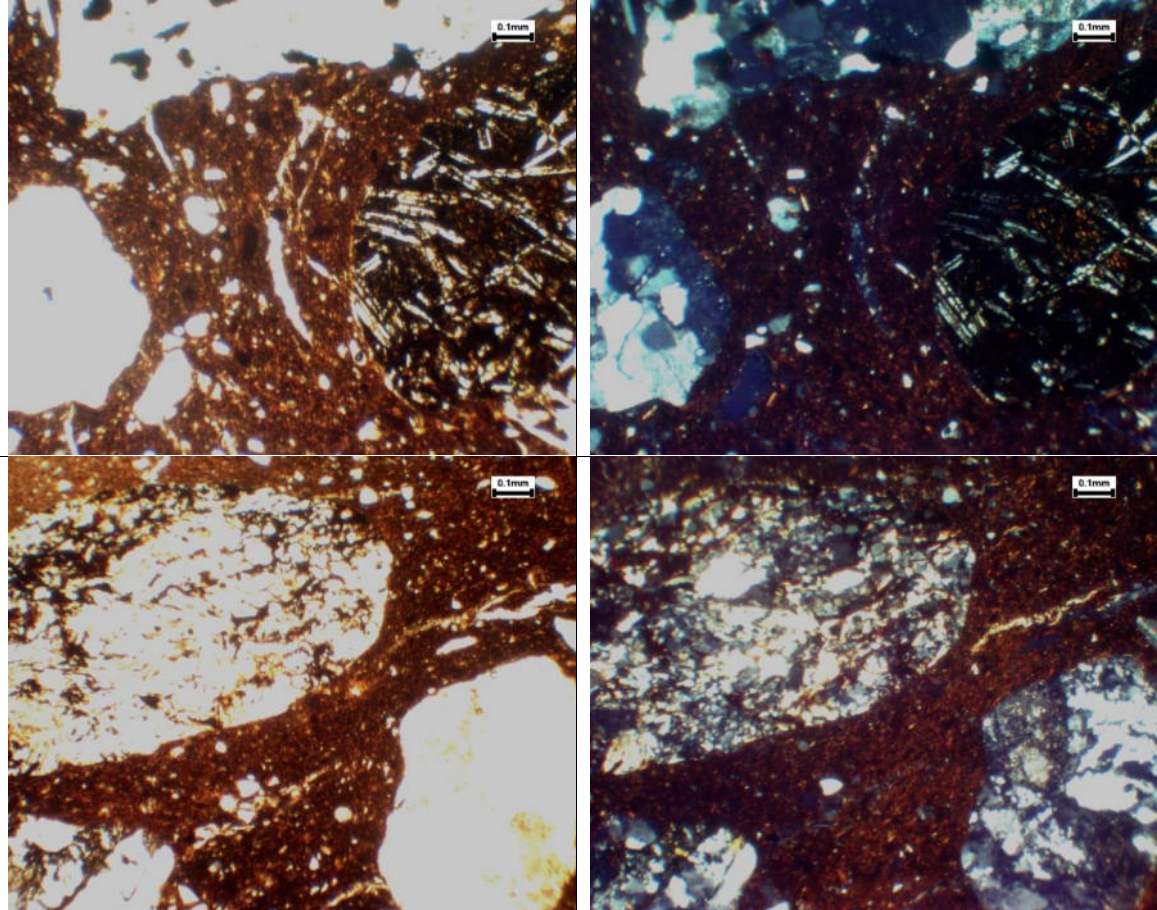
Matrix 77-79%

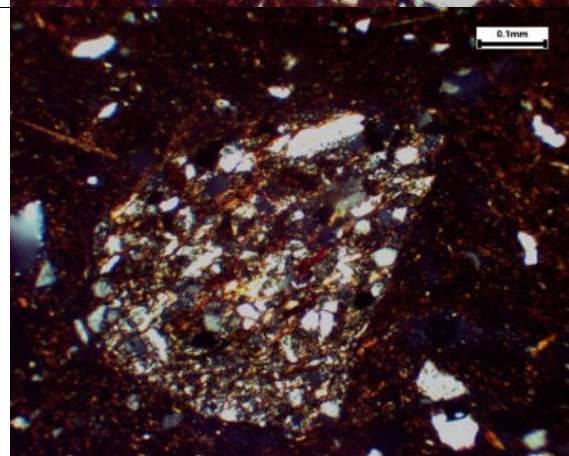
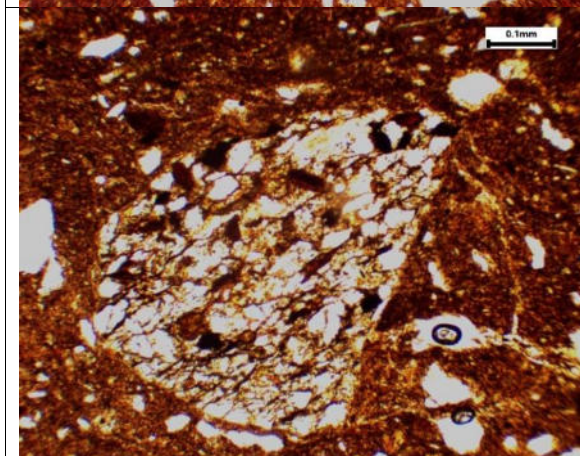
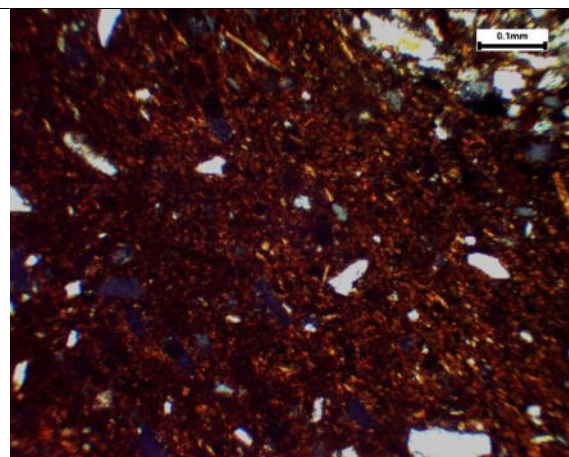
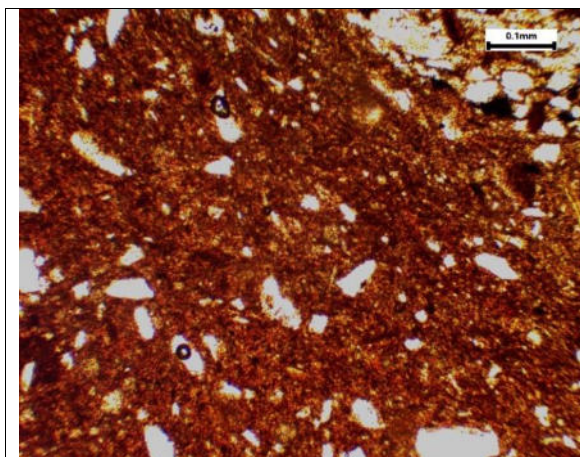
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
fairly homogeneous	poor	active	brown/ golden brown	FSa-CSa clay pellets, 1-3% of the matrix

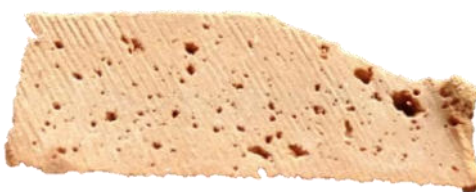
Voids 1-3%

Type and size	Distinct characteristics
mega/ macro channels, vughs	very few voids have secondary calcite accumulations along the margins

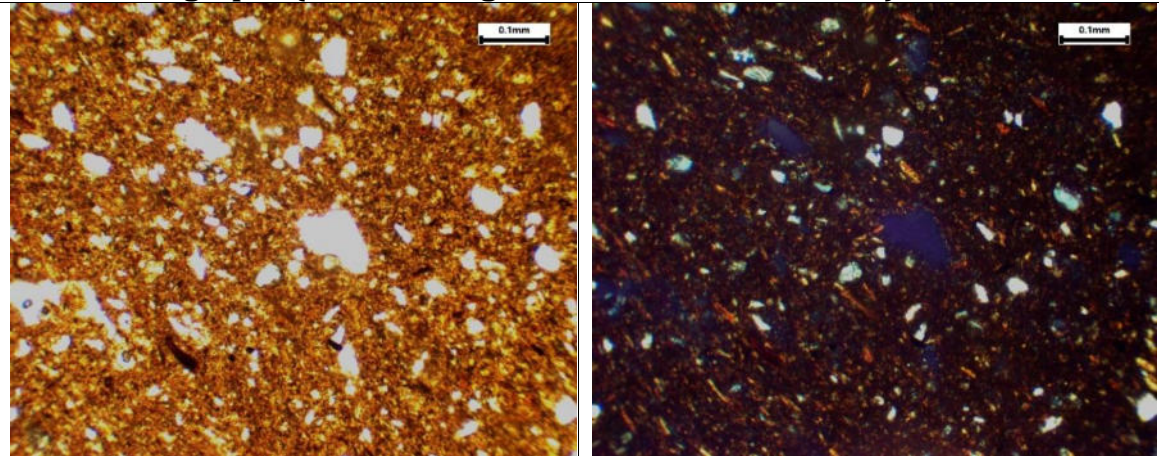
Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)

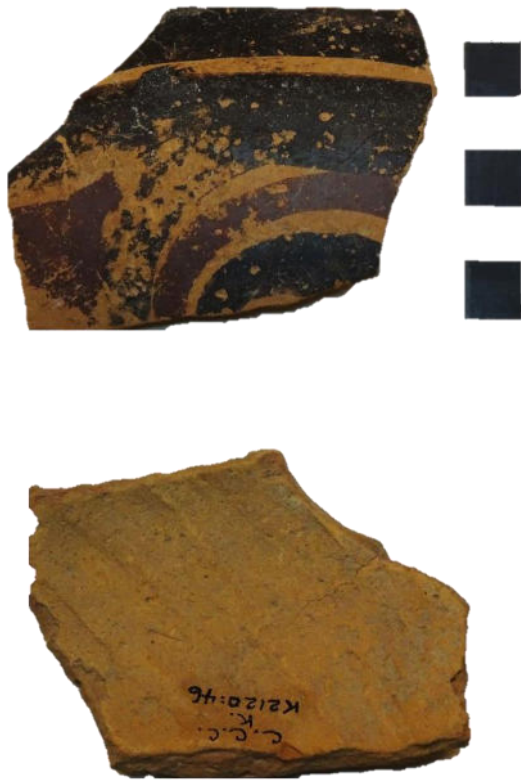




Sample code: CNP107 MFEA Museum Number: K.2120:36 Site: Zhujiashai		Fabric group: 2A; Fine, Mica-Quartz-Feldspar		
Sherd photo		Fabric photo		
				
		Thin section scan 		
Description				
MACROSCOPIC: Body sherd; slightly reduced core, oxidised margins; polished, painted red and black inside; max. thickness 5.7 mm.				
MICROSCOPIC: Non-plastic inclusions 20%				
Coarse 0%		Fine 100%		
none		• mica 50% • quartz 40% • feldspar 10%		
Matrix 75%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	brown/ dark golden brown	none
Voids 5%				
Type and size		Distinct characteristics		
meso vughs, vesicles		none		

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP108 MFEA Museum Number: K.2120:46 Site: Zhujiashai	Fabric group: 3A; Fine, Mica-Quartz-Feldspar, less inclusion frequency than Fabric group 2A				
Sherd photo	Fabric photo				
					
	Thin section scan				
					
Description					
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 6.5 mm.					
MICROSCOPIC: Non-plastic inclusions 15-20%					
Coarse 0%					

Voids 3%

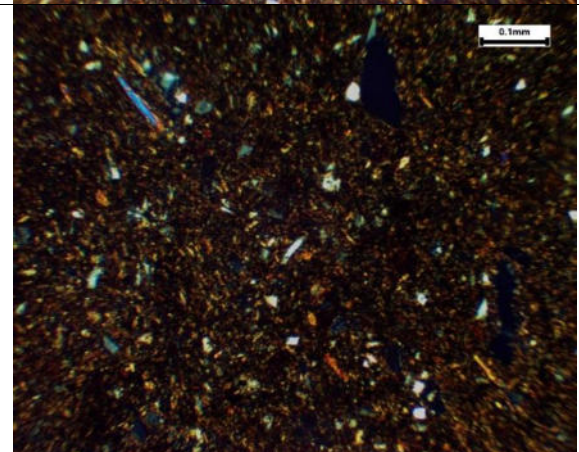
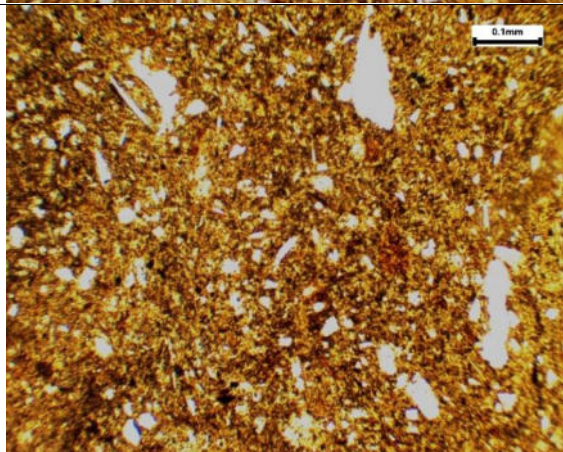
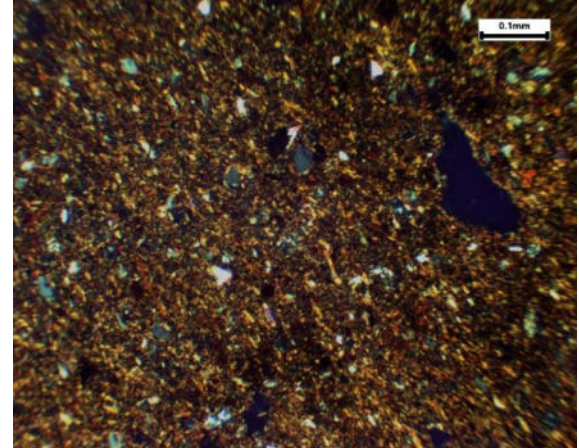
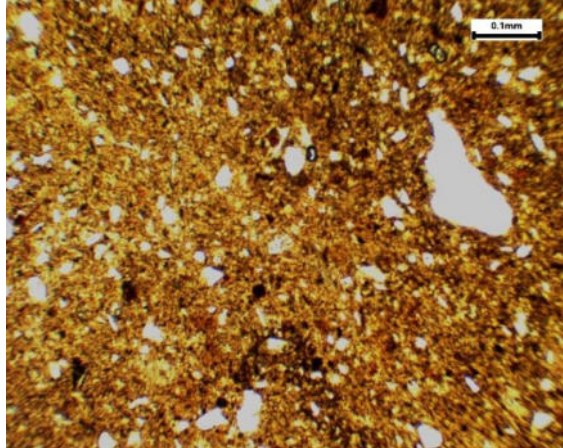
Type and size

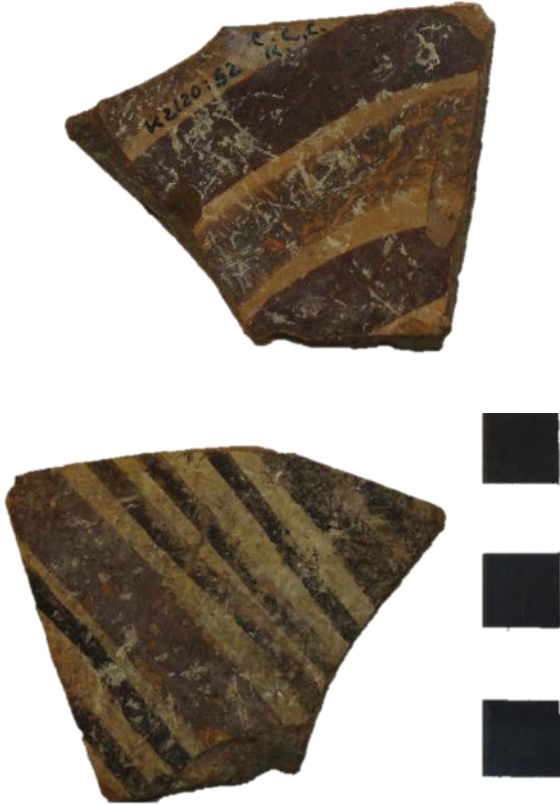
macro/ meso vughs, vesicles, channels

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP109 MFEA Museum Number: K.2120.52 Site: Zhujiashai	Fabric (not grouped): Semi-coarse Quartz, Volcanic glass and Sedimentary rock fragments
Sherd photo	Fabric photo
	
	Thin section scan 
Description MACROSCOPIC: Body sherd; slightly reduced core, oxidised margins; polished and painted red and black or brown outside and inside; max. wall thickness 6.7 mm. MICROSCOPIC: Non-plastic inclusions 10-20% Coarse 3% - quartz (eq, el; s-rnd; FSa-CSa) 35% - volcanic glass? (eq; rnd; MSa) 30% - siltstone (eq; s-rnd; MSa) 20% - plagioclase feldspar (eq; ang – s-ang; FSa) 10% - quartz mica schist (el; s-rnd; MSa) 5% Fine 97% - mica 70% - quartz 30%	

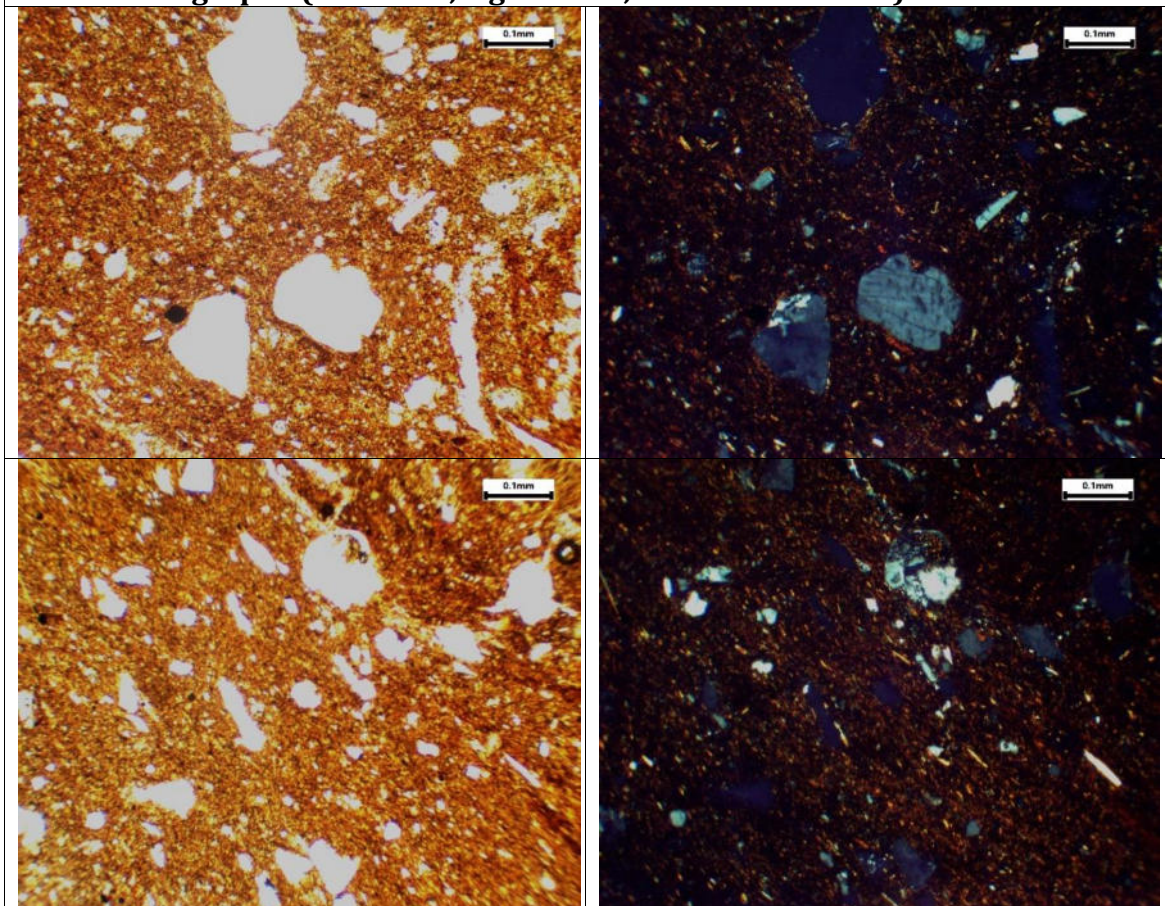
Matrix 75-85%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	moderate	active	reddish brown / golden brown	MSa-FGr clay pellets, 1-3% of the matrix

Voids 5%

Type and size	Distinct characteristics
macro vughs, channels	secondary calcite accumulation in some voids

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP110 MFEA Museum Number: K.2120:101 Site: Zhujiashai	Fabric group: 4D; Semi-coarse, Quartz-Feldspar with few Granodiorite rock fragments				
Sherd photo	Fabric photo				
					
	Thin section scan				
					
Description					
MACROSCOPIC: Rim sherd; oxidised inner core, reduced outer core, oxidised margins; polished and painted black and brown(?) outside and inside; max. wall thickness 7 mm.					
MICROSCOPIC: Non-plastic inclusions 25%					
<table> <tr> <th>Coarse 20%</th><th>Fine 80%</th></tr> <tr> <td> - quartz (eq, el; ang - rnd; FSa-CSa) 54.9% - plagioclase feldspar (eq; ang - s-ang, FSa-CSa) 40% - granitic rock fragments - quartz, plagioclase, biotite (eq; s-rnd; MSa) 5% - biotite (lamella; MSa) 0.1% </td><td> - mica 60% - quartz 40% </td></tr> </table>		Coarse 20%	Fine 80%	- quartz (eq, el; ang - rnd; FSa-CSa) 54.9% - plagioclase feldspar (eq; ang - s-ang, FSa-CSa) 40% - granitic rock fragments - quartz, plagioclase, biotite (eq; s-rnd; MSa) 5% - biotite (lamella; MSa) 0.1%	- mica 60% - quartz 40%
Coarse 20%	Fine 80%				
- quartz (eq, el; ang - rnd; FSa-CSa) 54.9% - plagioclase feldspar (eq; ang - s-ang, FSa-CSa) 40% - granitic rock fragments - quartz, plagioclase, biotite (eq; s-rnd; MSa) 5% - biotite (lamella; MSa) 0.1%	- mica 60% - quartz 40%				

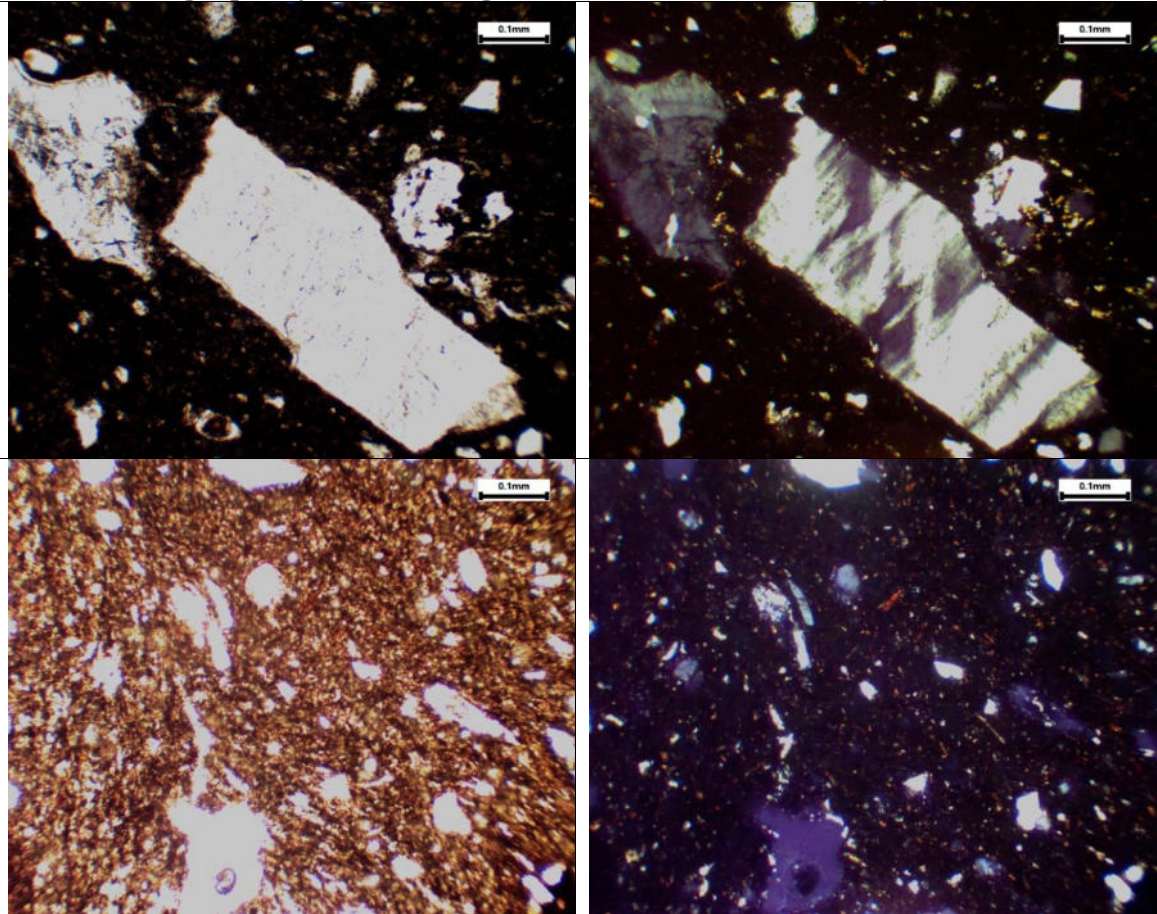
Matrix 72%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	moderate?	grey brownish/ dark grey brown	none

Voids 5%

Type and size	Distinct characteristics
macro/meso channels, vughs, vesicles	Channels are aligned parallel to the long edge.

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP111 MFEA Museum Number: K.2120.122 Site: Zhujiashai	Fabric group: 3B Semi-coarse, Quartz and Feldspar fragments, groundmass similar to 3A										
Sherd photo	Fabric photo										
											
	Thin section scan 										
Description											
MACROSCOPIC: Body sherd; fired in the oxidising atmosphere; polished, painted red and black; max. wall thickness 5.1 mm.											
MICROSCOPIC: Non-plastic inclusions 20%											
<table><tr><td colspan="2">Coarse 30%</td><td colspan="2">Fine 70%</td></tr><tr><td colspan="2"> - quartz (eq, el; ang – s-rnd; FSa-MSa) 70% - feldspar (eq; s-ang; FSa-MSa) 30% </td><td colspan="2"> - mica 70% - quartz 29% - feldspar <1% </td></tr></table>		Coarse 30%		Fine 70%		- quartz (eq, el; ang – s-rnd; FSa-MSa) 70% - feldspar (eq; s-ang; FSa-MSa) 30%		- mica 70% - quartz 29% - feldspar <1%			
Coarse 30%		Fine 70%									
- quartz (eq, el; ang – s-rnd; FSa-MSa) 70% - feldspar (eq; s-ang; FSa-MSa) 30%		- mica 70% - quartz 29% - feldspar <1%									
Matrix 70-75%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>heterogeneous</td><td>poor</td><td>moderate</td><td>red brown / red brown</td><td>FSa-FGr clay pellets, >10% of the matrix</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	heterogeneous	poor	moderate	red brown / red brown	FSa-FGr clay pellets, >10% of the matrix
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
heterogeneous	poor	moderate	red brown / red brown	FSa-FGr clay pellets, >10% of the matrix							

Voids 5-10%

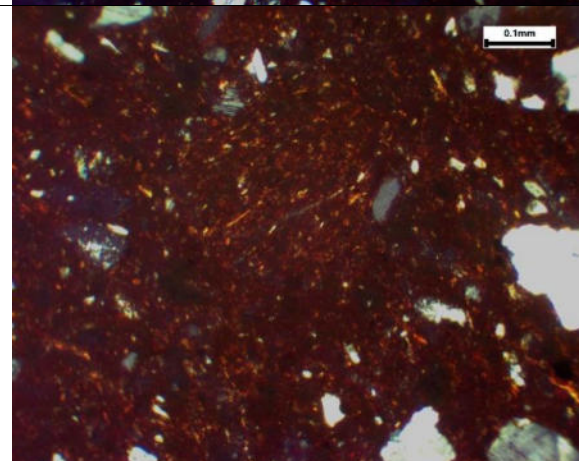
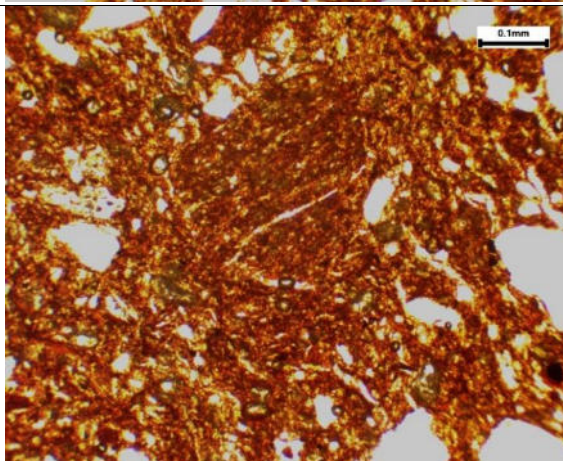
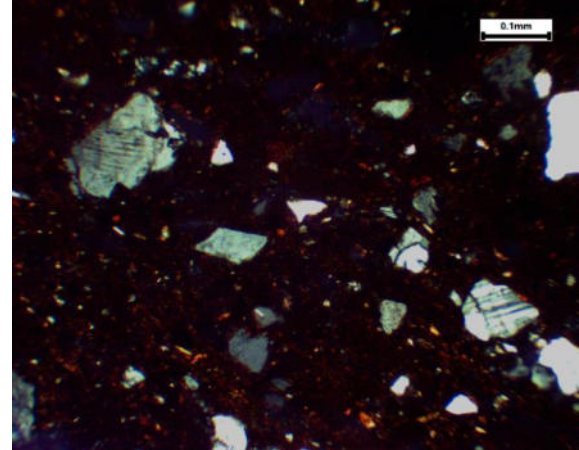
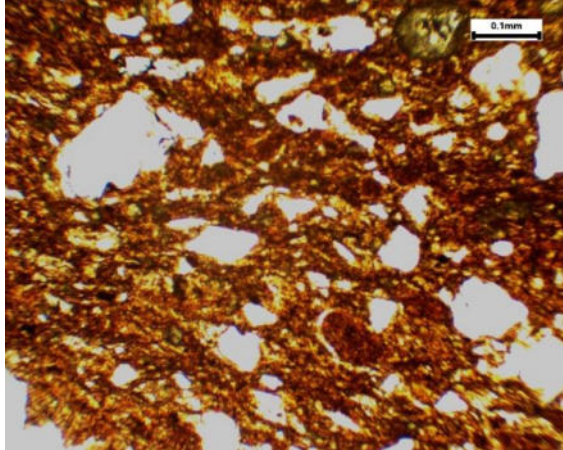
Type and size

macro/ meso vughs and channels, meso vesicles

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP112	Fabric group: 3A; Fine, Mica-Quartz-Feldspar, less inclusion frequency than Fabric group 2A			
MFEA Museum Number: K.2120:126				
Site: Zhujiashai				
Sherd photo	Fabric photo			
				
	Thin section scan			
				
Description				
MACROSCOPIC:				
Body sherd; fired in oxidising atmosphere; polished, painted red and black; max. wall thickness 5.7 mm.				
MICROSCOPIC:				
Non-plastic inclusions 10%				
Coarse 0%		Fine 100%		
none		• mica 60% • quartz 30%		
Matrix 85%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	brown / dark brown	none

Voids 5%

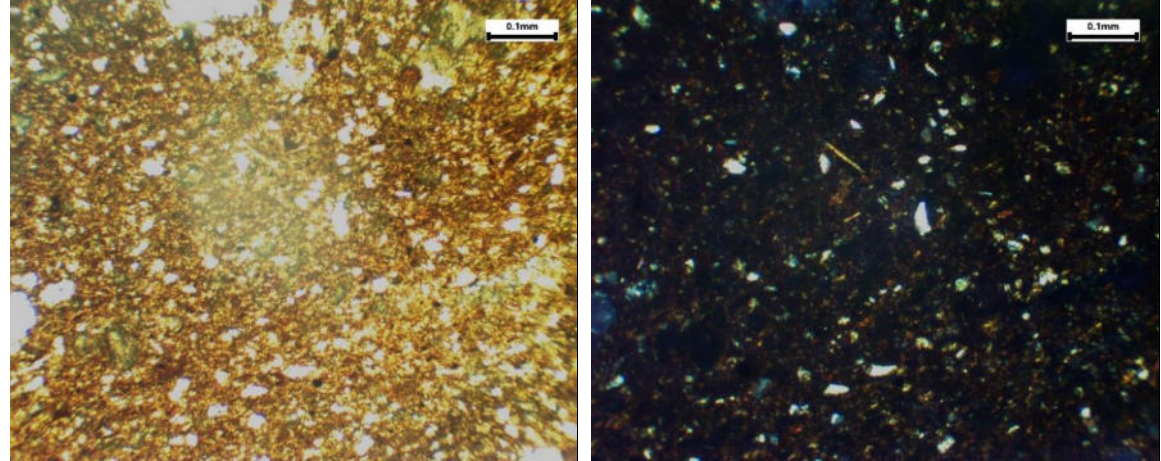
Type and size

macro/ meso vesicles and
vughs

Distinct characteristics

some voids have accumulations of secondary
calcite

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP113 MFEA Museum Number: K.2120:127 Site: Zhujiashai	Fabric (not grouped): Fine, Quartz dominant										
Sherd photo	Fabric photo										
	 Thin section scan 										
Description											
MACROSCOPIC: Shoulder sherd; fired in oxidising atmosphere; polished, painted red and black; max. wall thickness 8 mm.											
MICROSCOPIC: Non-plastic inclusions 20-30%											
<table><tr><td colspan="2">Coarse 0.1%</td><td colspan="2">Fine 99.9%</td></tr><tr><td colspan="2"> - quartz (eq, el; ang – s-rnd, FSa-MSa) 70% - plagioclase feldspar (eq; s-ang; FSa-MSa) 30% </td><td colspan="2"> - quartz 50% - mica 40% - feldspar 10% </td></tr></table>		Coarse 0.1%		Fine 99.9%		- quartz (eq, el; ang – s-rnd, FSa-MSa) 70% - plagioclase feldspar (eq; s-ang; FSa-MSa) 30%		- quartz 50% - mica 40% - feldspar 10%			
Coarse 0.1%		Fine 99.9%									
- quartz (eq, el; ang – s-rnd, FSa-MSa) 70% - plagioclase feldspar (eq; s-ang; FSa-MSa) 30%		- quartz 50% - mica 40% - feldspar 10%									
Matrix 60-75%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>inactive</td><td>grey brown / dark grey brown</td><td>vitrified fabric but the sherd is not overfired</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	inactive	grey brown / dark grey brown	vitrified fabric but the sherd is not overfired
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	inactive	grey brown / dark grey brown	vitrified fabric but the sherd is not overfired							

Voids 5-10%

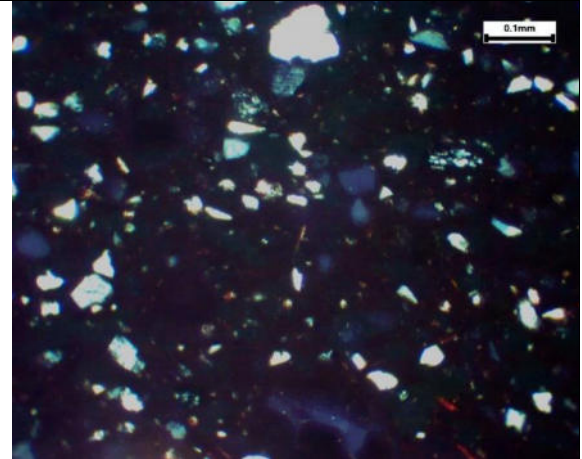
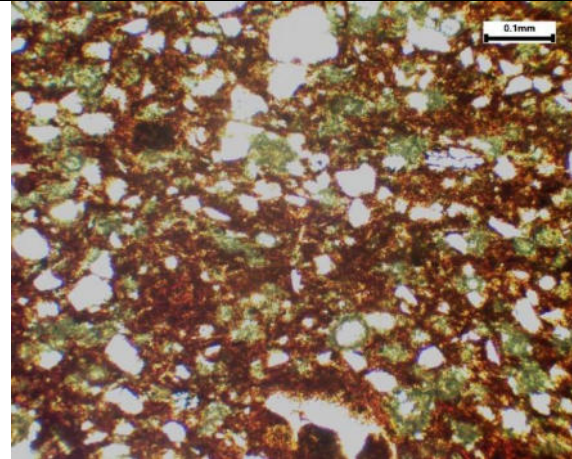
Type and size

macro/ meso vesicles, vughs, channels

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP114 MFEA Museum Number: K.2120:143 Site: Zhujiashai	Fabric group: 1; Fine, Mica dominant, mineral inclusions are MSi-sized and smaller										
Sherd photo	Fabric photo										
											
	Thin section scan										
											
Description											
MACROSCOPIC: Body sherd; slightly reduced core, oxidised margins; polished and painted black; max. wall thickness 7 mm.											
MICROSCOPIC: Non-plastic inclusions 15%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> • mica 79%, • quartz 20% • feldspar 1% </td></tr></table>		Coarse 0%	Fine 100%	none	• mica 79%, • quartz 20% • feldspar 1%						
Coarse 0%	Fine 100%										
none	• mica 79%, • quartz 20% • feldspar 1%										
Matrix 90-92%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>active</td><td>brown/golden brown</td><td>mineral inclusions are MSi sized and smaller</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	active	brown/golden brown	mineral inclusions are MSi sized and smaller
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	active	brown/golden brown	mineral inclusions are MSi sized and smaller							

Voids 3-5%

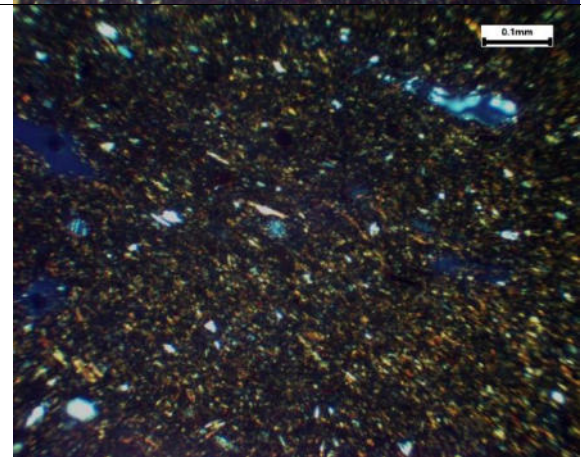
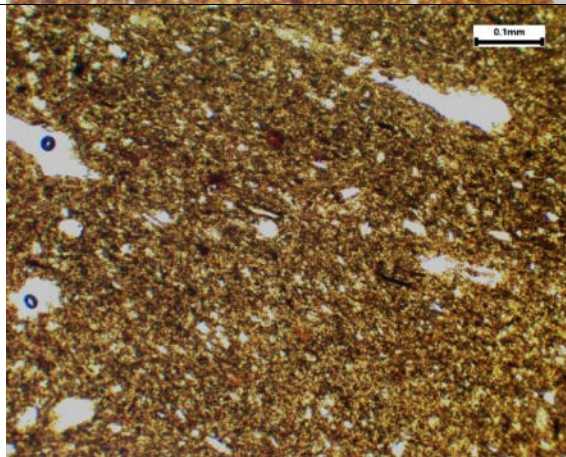
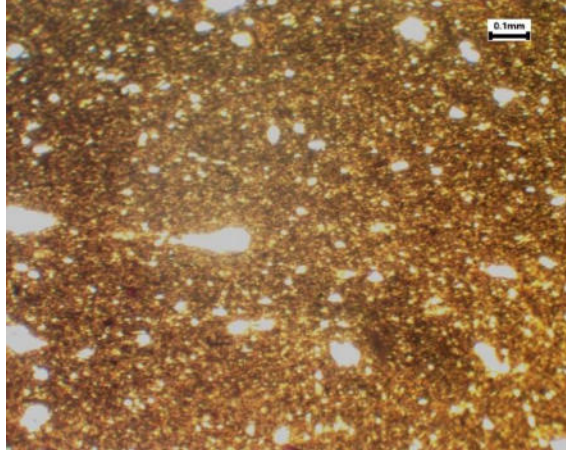
Type and size

macro/ meso vughs, vesicles

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP115 MFEA Museum Number: K.2120:151 Site: Zhujiashai	Fabric (not grouped): Semi-coarse Sedimentary rock and Black opaque rock fragments								
Sherd photo 	Fabric photo  Thin section scan 								
Description MACROSCOPIC: Rim sherd; fired in reducing atmosphere(?), fabric rather dull yellow brown than grey; polished and painted brown(?) outside and inside; max. wall thickness 5.3 mm. MICROSCOPIC: Non-plastic inclusions 10% <table border="1"> <thead> <tr> <th>Coarse 10%</th><th>Fine 90%</th></tr> </thead> <tbody> <tr> <td>• siltstone (eq, el; s-rnd – rnd; MSa-CSa) 60%</td><td>• mica 50%</td></tr> <tr> <td>• black opaque rounded inclusions - haematite or mudstone? (FSa-MSa) 39%</td><td>• quartz 50%</td></tr> <tr> <td>• plagioclase feldspar (eq; s-rnd; FSa) 1%</td><td></td></tr> </tbody> </table>		Coarse 10%	Fine 90%	• siltstone (eq, el; s-rnd – rnd; MSa-CSa) 60%	• mica 50%	• black opaque rounded inclusions - haematite or mudstone? (FSa-MSa) 39%	• quartz 50%	• plagioclase feldspar (eq; s-rnd; FSa) 1%	
Coarse 10%	Fine 90%								
• siltstone (eq, el; s-rnd – rnd; MSa-CSa) 60%	• mica 50%								
• black opaque rounded inclusions - haematite or mudstone? (FSa-MSa) 39%	• quartz 50%								
• plagioclase feldspar (eq; s-rnd; FSa) 1%									

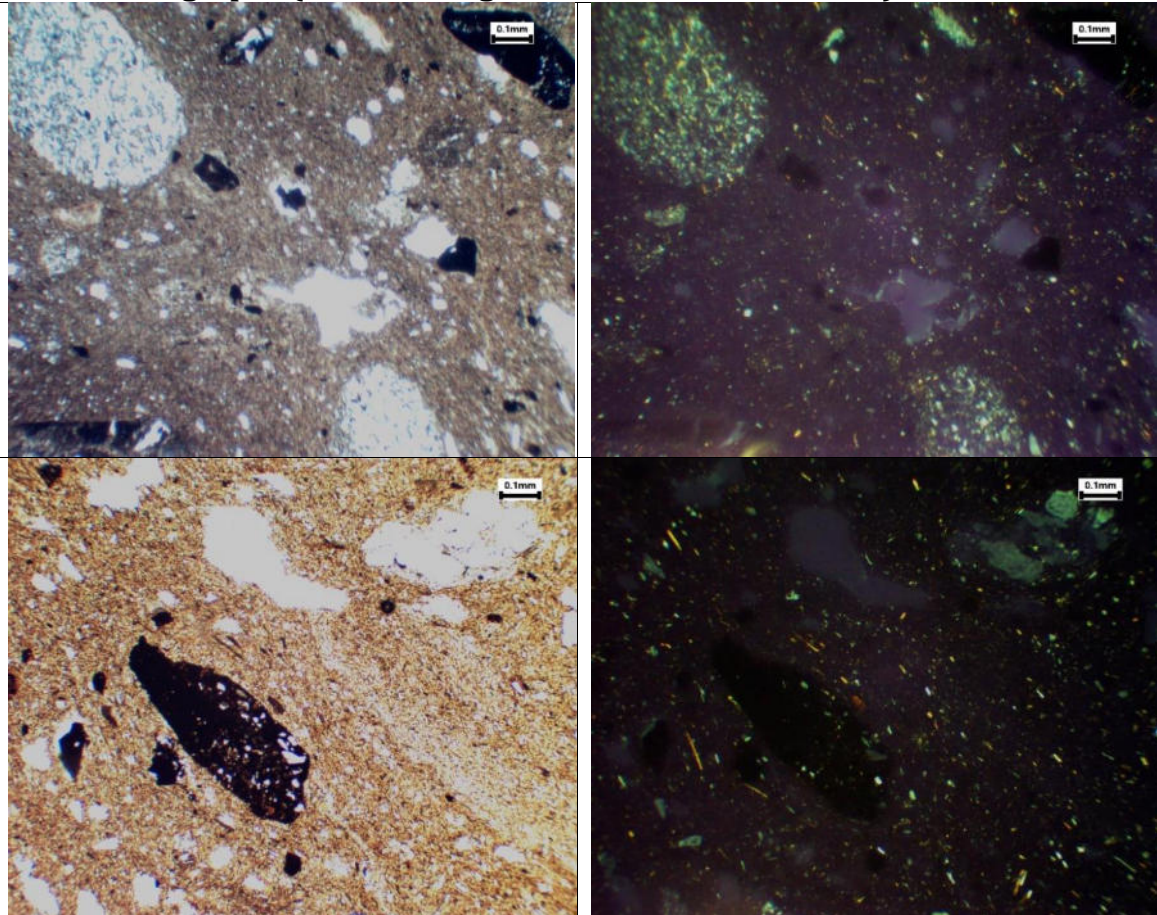
Matrix 80-85%

Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	moderate	moderate	light brown / greenish grey	fine fraction is of MSi size and smaller; very porous texture - many small pores; siltstone or poor mixing? CSa clay pellets, 1% of the matrix

Voids 5-10%

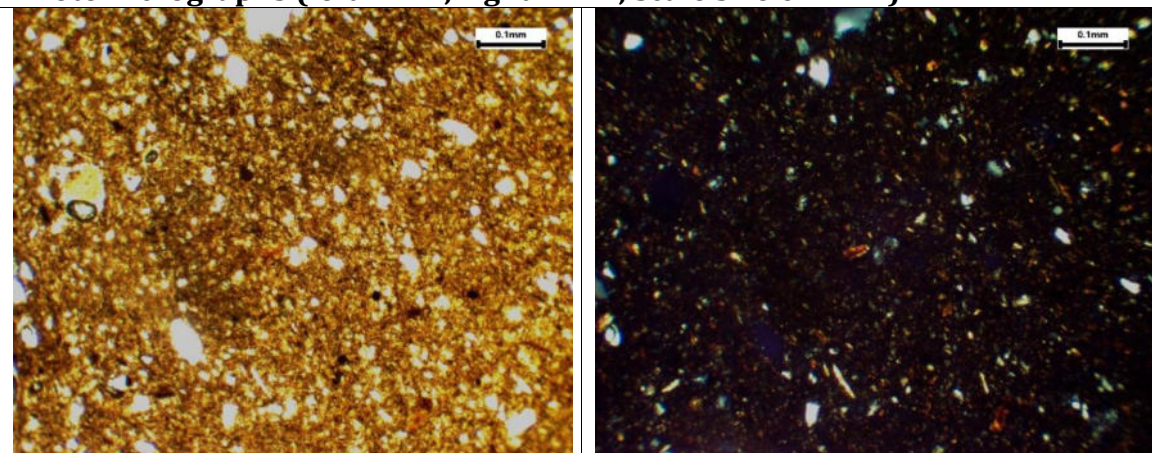
Type and size	Distinct characteristics
macro/ meso vughs, meso vesicles	secondary calcite accumulations in some voids

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP116	Fabric group: 3A; Fine, Mica-Quartz-			
MFEA Museum Number: K.2120:152	Feldspar, less inclusion frequency than			
Site: Zhujiashai	Fabric group 2A			
Sherd photo	Fabric photo			
				
	Thin section scan			
				
Description				
MACROSCOPIC:				
Body sherd; slightly reduced core, oxidised margins; polished and painted black on the inside; max. wall thickness 5.5 mm.				
MICROSCOPIC:				
Non-plastic inclusions 15-20%				
Coarse 0%		Fine 100%		
none		• mica 50% • quartz 45% • feldspar 5%		
Matrix 77-82%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	brown / golden brown	none
Voids 3%				
Type and size		Distinct characteristics		
macro/ meso vughs, vesicles, channels		Rare voids have charred margins.		

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP117 MFEA Museum Number: K.2120:209 Site: Zhujiashai	Fabric group: 2A; Fine, Mica-Quartz-Feldspar				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body and handle sherd; fired in oxidising atmosphere, uneven oxidation, buff yellow core with a thin orange layer inside; polished and painted black; max. wall thickness 5.2 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 50% • quartz 45% • feldspar 5% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 50% • quartz 45% • feldspar 5%
Coarse 0%	Fine 100%				
none	• mica 50% • quartz 45% • feldspar 5%				

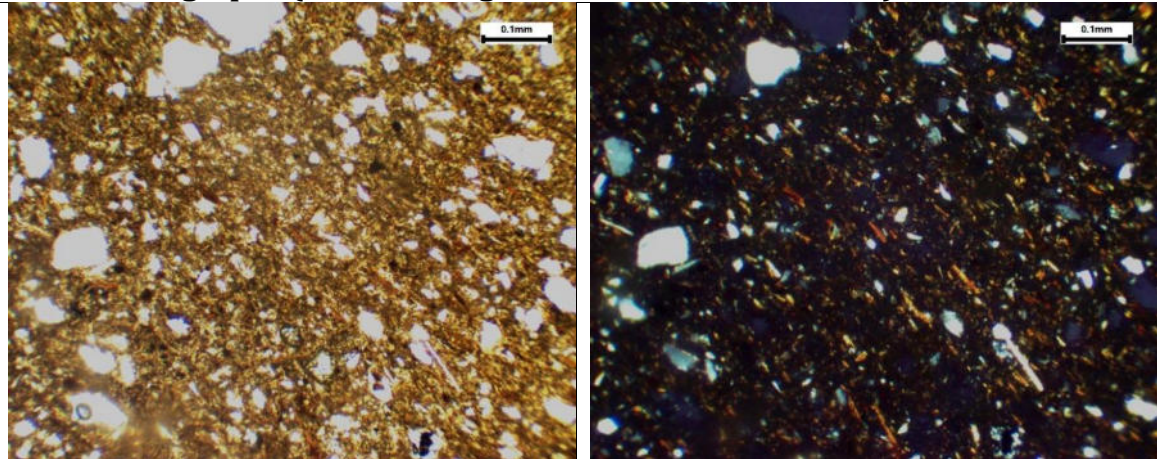
Matrix 70%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	grey to red brown / dark greenish grey to golden brown	partially vitrified – highly but inconsistently fired as seen on the cross section

Voids 10%

Type and size	Distinct characteristics
macro/meso vesicles, vughs, channels	mostly of meso size

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)

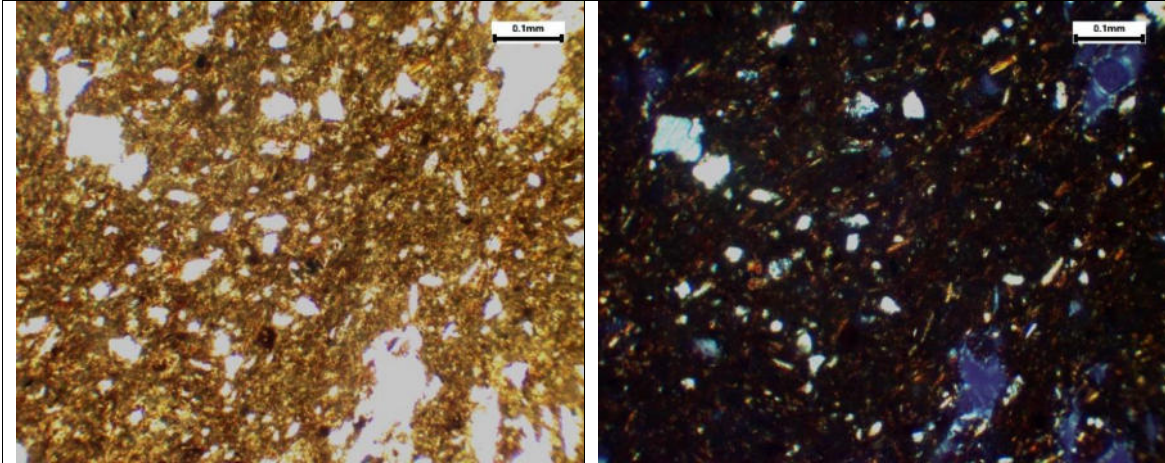


Sample code: CNP118 MFEA Museum Number: K.2120:210 Site: Zhujiashai	Fabric group: 3A; Fine, Mica-Quartz-Feldspar, less inclusion frequency than Fabric group 2A			
Sherd photo	Fabric photo			
				
	Thin section scan			
				
Description				
MACROSCOPIC: Body and handle sherd; slightly reduced core, oxidised margins; polished and painted black; max. wall thickness 5.3 mm.				
MICROSCOPIC: Non-plastic inclusions 10-15%				
Coarse 0%		Fine 100%		
none		• mica 45% • quartz 45% • feldspar 10%		
Matrix 85-87%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	inactive	grey brown / dark brown	matrix is almost fully vitrified but not overfired

Voids 3-5%

Type and size	Distinct characteristics
macro/meso vughs, vesicles	Very rare voids along the edges have secondary calcite accumulations.

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP119 MFEA Museum Number: K.2120:216 Site: Zhujiashai		Fabric group: 2A; Fine, Mica-Quartz-Feldspar												
Sherd photo		Fabric photo												
														
		Thin section scan 												
Description														
MACROSCOPIC: Body and handle sherd; reduced core, oxidised margins; polished and painted black; max. wall thickness 7.2 mm.														
MICROSCOPIC: Non-plastic inclusions 25%														
<table><tr><td colspan="2">Coarse 0%</td><td colspan="3">Fine 100%</td></tr><tr><td colspan="2">none</td><td colspan="3"> • mica 50% • quartz 40% • feldspar 10% </td></tr></table>					Coarse 0%		Fine 100%			none		• mica 50% • quartz 40% • feldspar 10%		
Coarse 0%		Fine 100%												
none		• mica 50% • quartz 40% • feldspar 10%												
Matrix 70%														
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>moderate</td><td>brown/ golden brown</td><td>none</td></tr></table>					Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	moderate	brown/ golden brown	none
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments										
homogeneous	well	moderate	brown/ golden brown	none										

Voids 5%

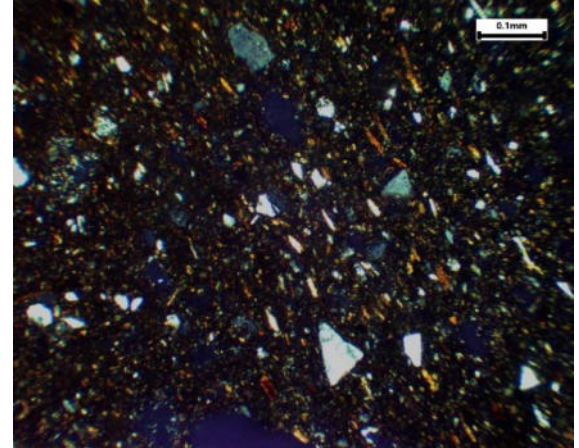
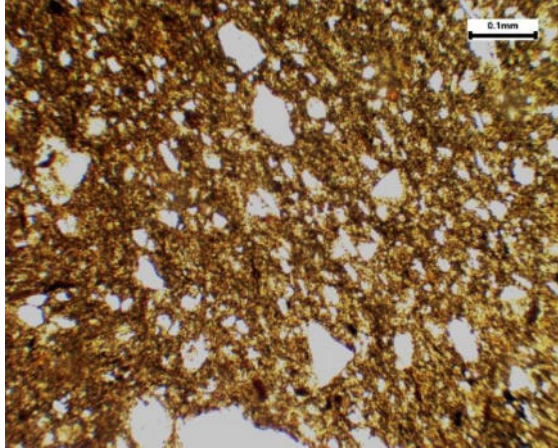
Type and size

macro/ meso vughs, vesicles, channels

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP120 MFEA Museum Number: K.2120:232 Site: Zhujiashai	Fabric group: 2A; Fine, Mica-Quartz-Feldspar
Sherd photo	Fabric photo
	
	Thin section scan 
Description MACROSCOPIC: Neck sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 4.5 mm. MICROSCOPIC: Non-plastic inclusions 20% Coarse 3% - quartz (eq; s-rnd; FSa-MSa) 40% - plagioclase feldspar (eq; s-ang; MSa-CSa) 30% - haematite (eq; rnd; MSa-CSa) 25% - sandstone (eq; rnd; MSa) 5% Fine 97% - mica 69% - quartz 30% - feldspar 1%?	

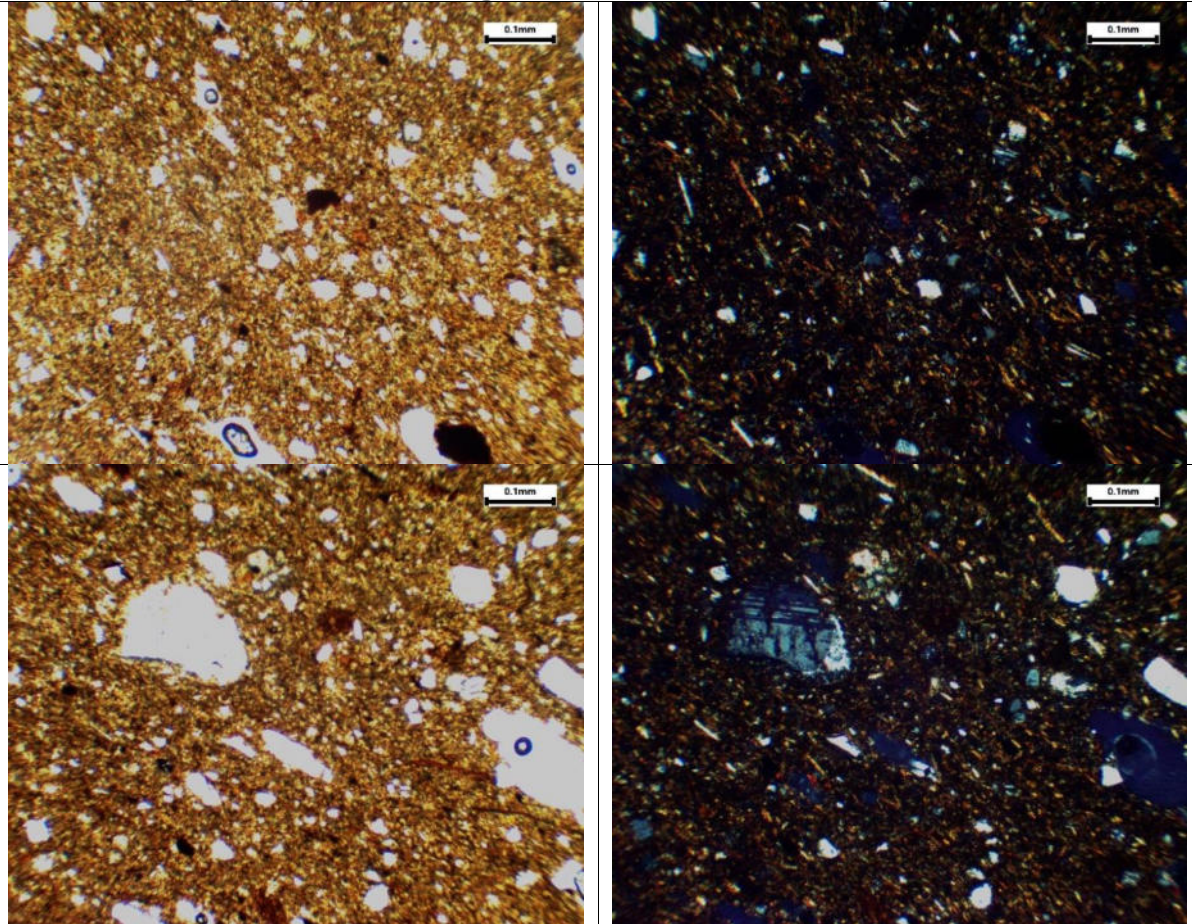
Matrix 77-79%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	active	brown/ golden brown	secondary calcite?

Voids 1-3%

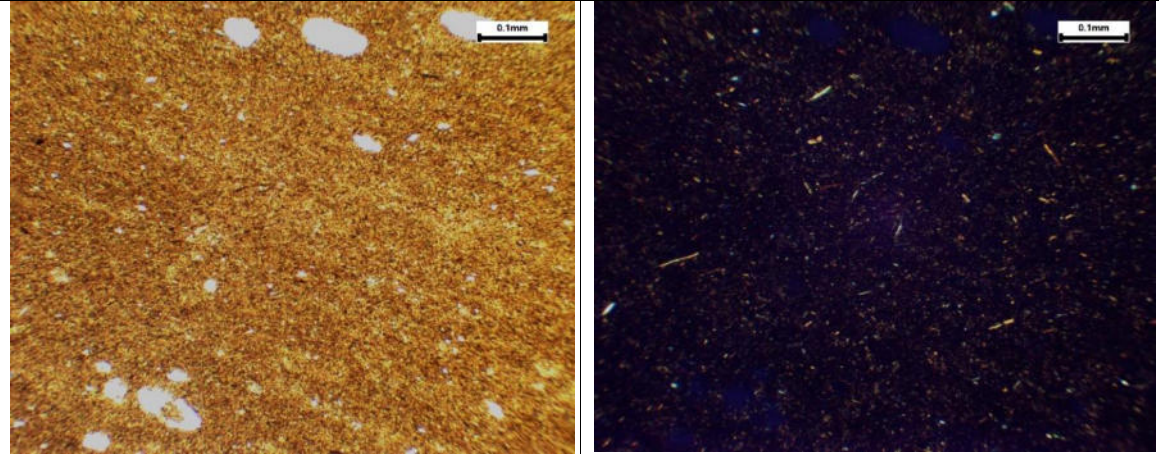
Type and size	Distinct characteristics
macro, meso vughs	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP121 MFEA Museum Number: K.2120:236 Site: Zhujiashai		Fabric group: 1; Fine, Mica dominant, mineral inclusions are MSi-sized and smaller		
Sherd photo		Fabric photo		
				
		Thin section scan 		
Description				
MACROSCOPIC: Rim sherd; slightly reduced core, oxidised margins; polished and painted black and brown(?) outside and inside; max. wall thickness 5.7 mm.				
MICROSCOPIC: Non-plastic inclusions 5%				
Coarse 0%		Fine 100%		
none		• mica 70% • quartz 30%		
Matrix 90%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	yellow brown / golden brown	mineral inclusions are MSi-sized and smaller
Voids 5%				
Type and size		Distinct characteristics		
macro/meso vughs, vesicles		none		

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP122 MFEA Museum Number: K.2120:242 Site: Zhujiashai	Fabric group: 2A; Fine, Mica-Quartz-Feldspar													
Sherd photo	Fabric photo													
														
	Thin section scan													
														
Description														
MACROSCOPIC: Rim sherd; slightly reduced core, oxidised margins; polished and painted black inside; max. wall thickness 4.8 mm.														
MICROSCOPIC: Non-plastic inclusions 30%														
<table><tr><td colspan="2">Coarse 0%</td><td colspan="3">Fine 100%</td></tr><tr><td colspan="2">none</td><td colspan="3"> • mica 60% • quartz 39.5% • feldspar 0.5% </td></tr></table>					Coarse 0%		Fine 100%			none		• mica 60% • quartz 39.5% • feldspar 0.5%		
Coarse 0%		Fine 100%												
none		• mica 60% • quartz 39.5% • feldspar 0.5%												
Matrix 55-60%														
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>moderate</td><td>grey/ golden grey</td><td>none</td></tr></table>					Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	moderate	grey/ golden grey	none
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments										
homogeneous	well	moderate	grey/ golden grey	none										

Voids 10-15%

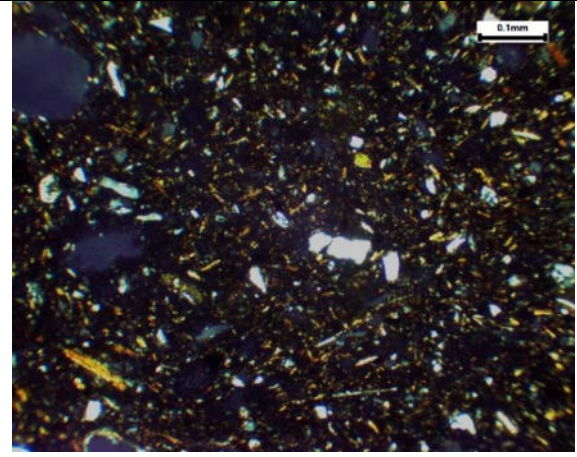
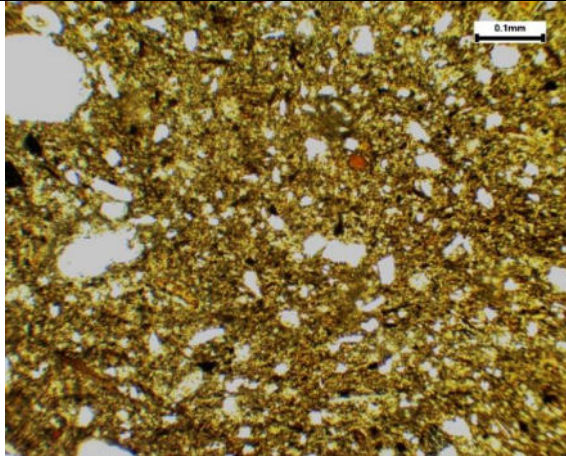
Type and size

macro/ meso vughs, vesicles

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)

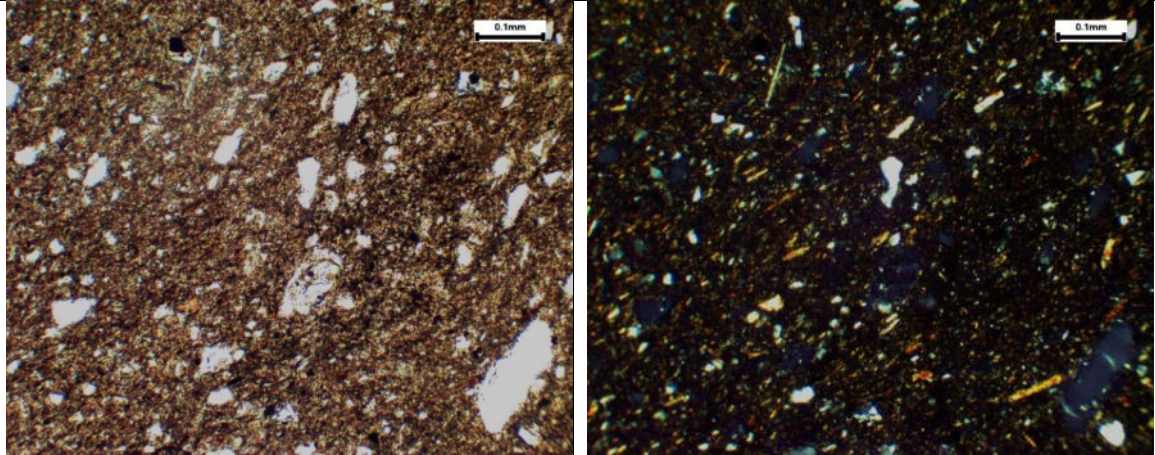


Sample code: CNP123 MFEA Museum Number: K.2120:259 Site: Zhujiashai		Fabric group: 2A; Fine, Mica-Quartz-Feldspar		
Sherd photo		Fabric photo		
				
		Thin section scan		
				
Description				
MACROSCOPIC: Rim sherd; reduced core, oxidised margins; polished and painted black; max. wall thickness 5.7 mm				
MICROSCOPIC: Non-plastic inclusions 20%				
Coarse 0%		Fine 90%		
none		• mica 50% • quartz 40% • calcite? 1-5% • feldspar 1-5%		
Matrix 75%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	dark grey/ golden grey	secondary or redeposited natural calcite?

Voids 5%

Type and size	Distinct characteristics
macro/ meso vughs, vesicles	some voids have charred(?) black margins; one vugh has a calcite accumulation in a fringe-shape – secondary or redeposited natural calcite from the fabric?

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP124 MFEA Museum Number: K.2120:263 Site: Zhujiashai	Fabric group: 2A; Fine, Mica-Quartz-Feldspar								
Sherd photo 	Fabric photo  Thin section scan 								
Description MACROSCOPIC: Neck sherd; reduced core, oxidised margins; polished and painted black; max. wall thickness 7.8 mm. MICROSCOPIC: Non-plastic inclusions 20% <table> <thead> <tr> <th>Coarse 3%</th><th>Fine 97%</th></tr> </thead> <tbody> <tr> <td>• siltstone (el, eq; rnd; MSa-CSa) 65%</td><td>• mica 60%</td></tr> <tr> <td>• quartz (eq; s-rnd; MSa) 34%</td><td>• quartz 40%</td></tr> <tr> <td>• plagioclase feldspar (eq; s-rnd; FSa) 1%</td><td></td></tr> </tbody> </table>		Coarse 3%	Fine 97%	• siltstone (el, eq; rnd; MSa-CSa) 65%	• mica 60%	• quartz (eq; s-rnd; MSa) 34%	• quartz 40%	• plagioclase feldspar (eq; s-rnd; FSa) 1%	
Coarse 3%	Fine 97%								
• siltstone (el, eq; rnd; MSa-CSa) 65%	• mica 60%								
• quartz (eq; s-rnd; MSa) 34%	• quartz 40%								
• plagioclase feldspar (eq; s-rnd; FSa) 1%									

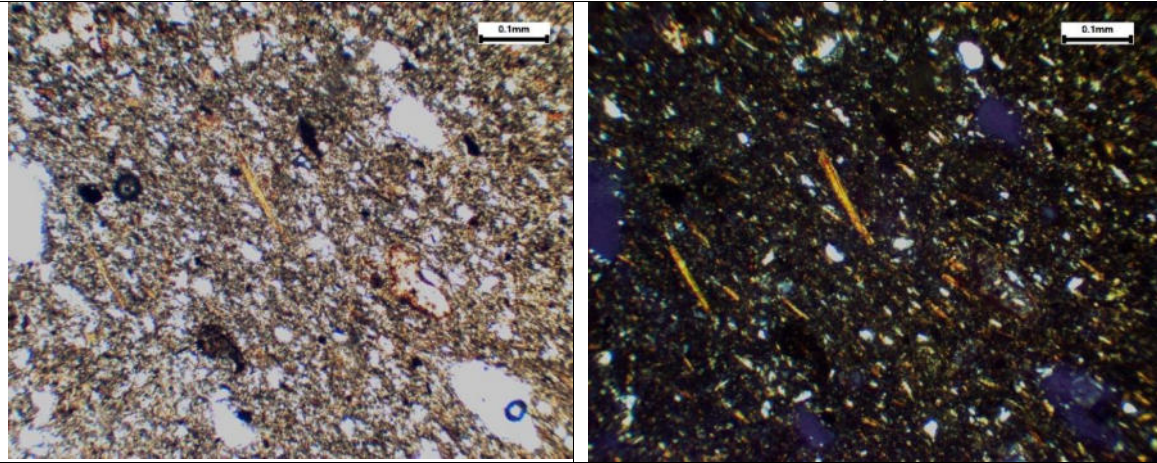
Matrix 70-75%

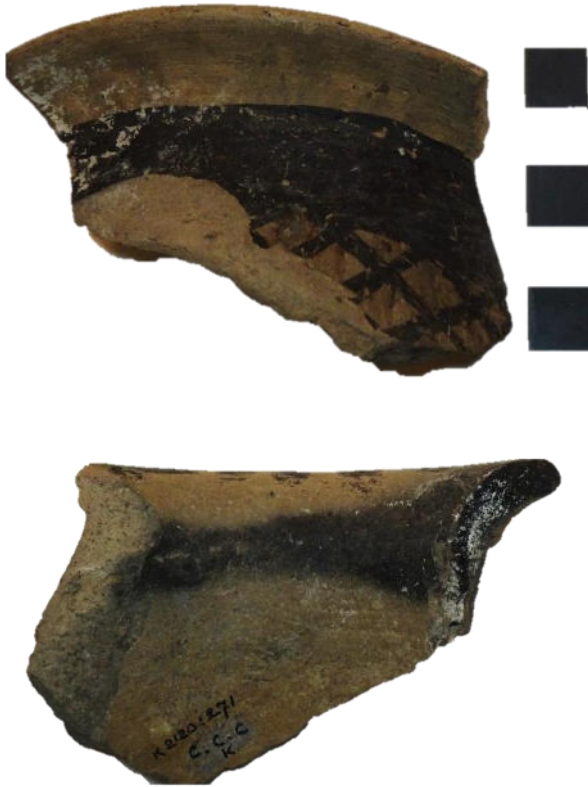
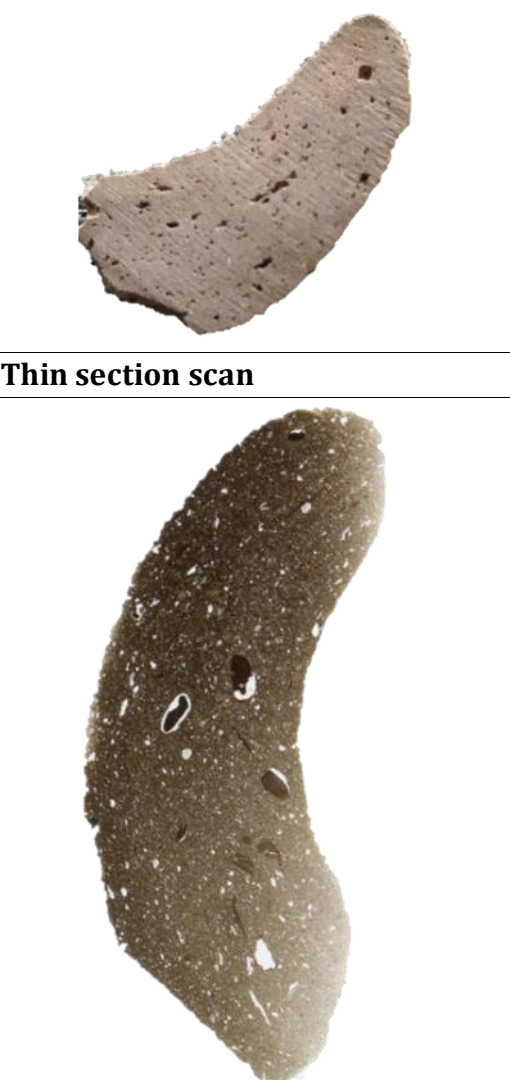
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	moderate	greenish grey / golden grey	none

Voids 5-10%

Type and size	Distinct characteristics
macro/ meso channels, vughs, vesicles	accumulations of secondary calcite on margins

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP125 MFEA Museum Number: K.2120:271 Site: Zhujiashai	Fabric group: 3A; Fine, Mica-Quartz-Feldspar, less inclusion frequency than Fabric group 2A				
Sherd photo	Fabric photo				
					
Description					
MACROSCOPIC: Rim sherd; fired in reducing(?) atmosphere; polished and painted black; max. wall thickness 6.8 mm. MICROSCOPIC: Non-plastic inclusions 20-30% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 60% • quartz 35% • feldspar 5% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 60% • quartz 35% • feldspar 5%
Coarse 0%	Fine 100%				
none	• mica 60% • quartz 35% • feldspar 5%				

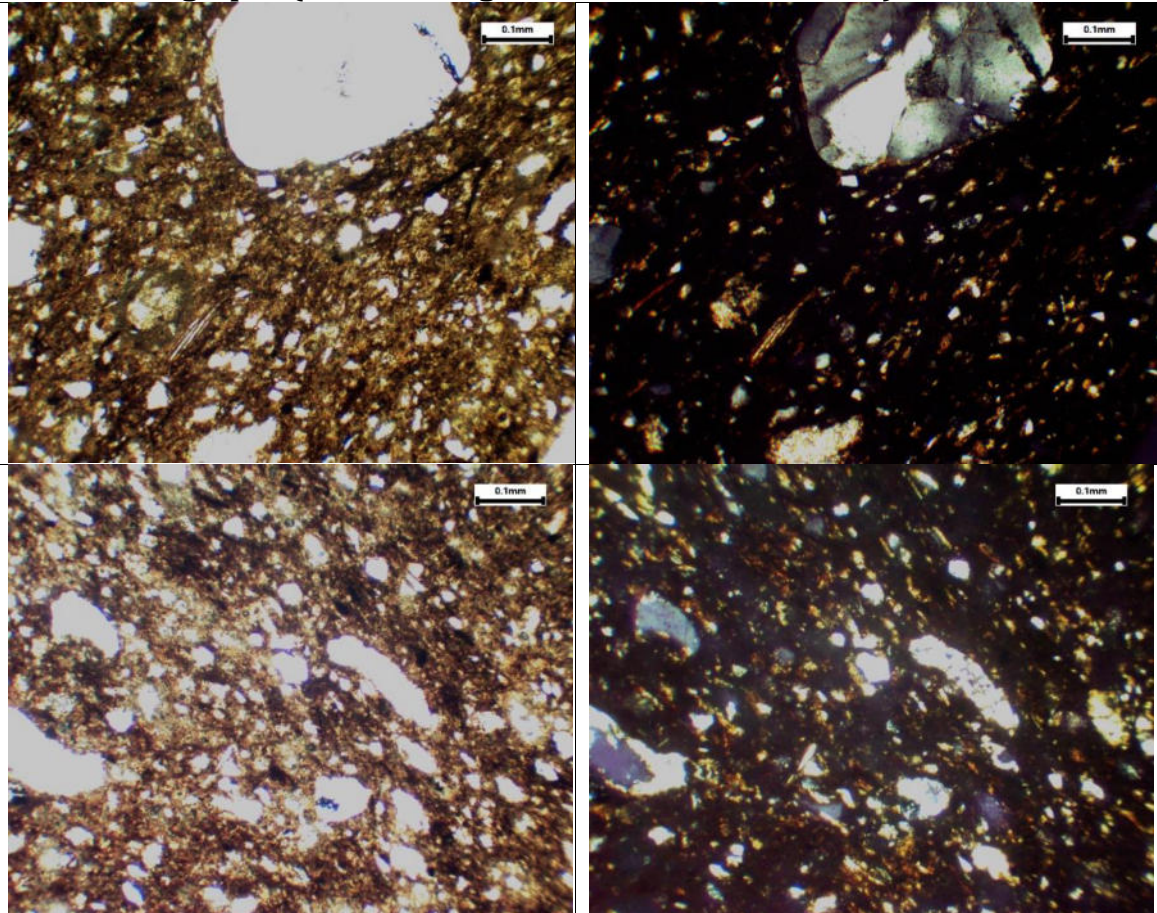
Matrix 65-75%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	moderate	inactive	grey and brown / dark grey and dark brown	dispersed secondary calcite or re-deposited natural calcite? – calcite forms the majority of inclusions; MSa-CSa clay pellets, 3% of the matrix

Voids 5%

Type and size	Distinct characteristics
macro/meso vesicles, vughs, channels	voids have accumulations of secondary calcite along the margins

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP126 MFEA Museum Number: K.1212:4 Site: Zhujiashai	Fabric group: 4A; Coarse, Quartz-Feldspar and Granodiorite fragments						
Sherd photo 	Fabric photo  Thin section scan 						
Description MACROSCOPIC: Rim, handle, and body sherd; fired in oxidising atmosphere; decorated with cross-cord impression and appliqué; max. wall thickness 6.5 mm. MICROSCOPIC: Non-plastic inclusions 25% <table border="1"> <thead> <tr> <th>Coarse 15%</th> <th>Fine 85%</th> </tr> </thead> <tbody> <tr> <td> - quartz (eq, el; s-ang – s-rnd, MSa-FGr) 50% </td> <td> - mica 50% </td> </tr> <tr> <td> - plagioclase/ microcline feldspar (eq; s-rnd; MSa- </td> <td> - quartz 45% </td> </tr> </tbody> </table>		Coarse 15%	Fine 85%	quartz (eq, el; s-ang – s-rnd, MSa-FGr) 50%	mica 50%	plagioclase/ microcline feldspar (eq; s-rnd; MSa-	quartz 45%
Coarse 15%	Fine 85%						
quartz (eq, el; s-ang – s-rnd, MSa-FGr) 50%	mica 50%						
plagioclase/ microcline feldspar (eq; s-rnd; MSa-	quartz 45%						

CSa) 45%

• feldspar 5%

- granitic/ metamorphic rock fragments – combination of quartz, plagioclase/ microcline feldspar, biotite (eq; s-rnd; CSa) 5%

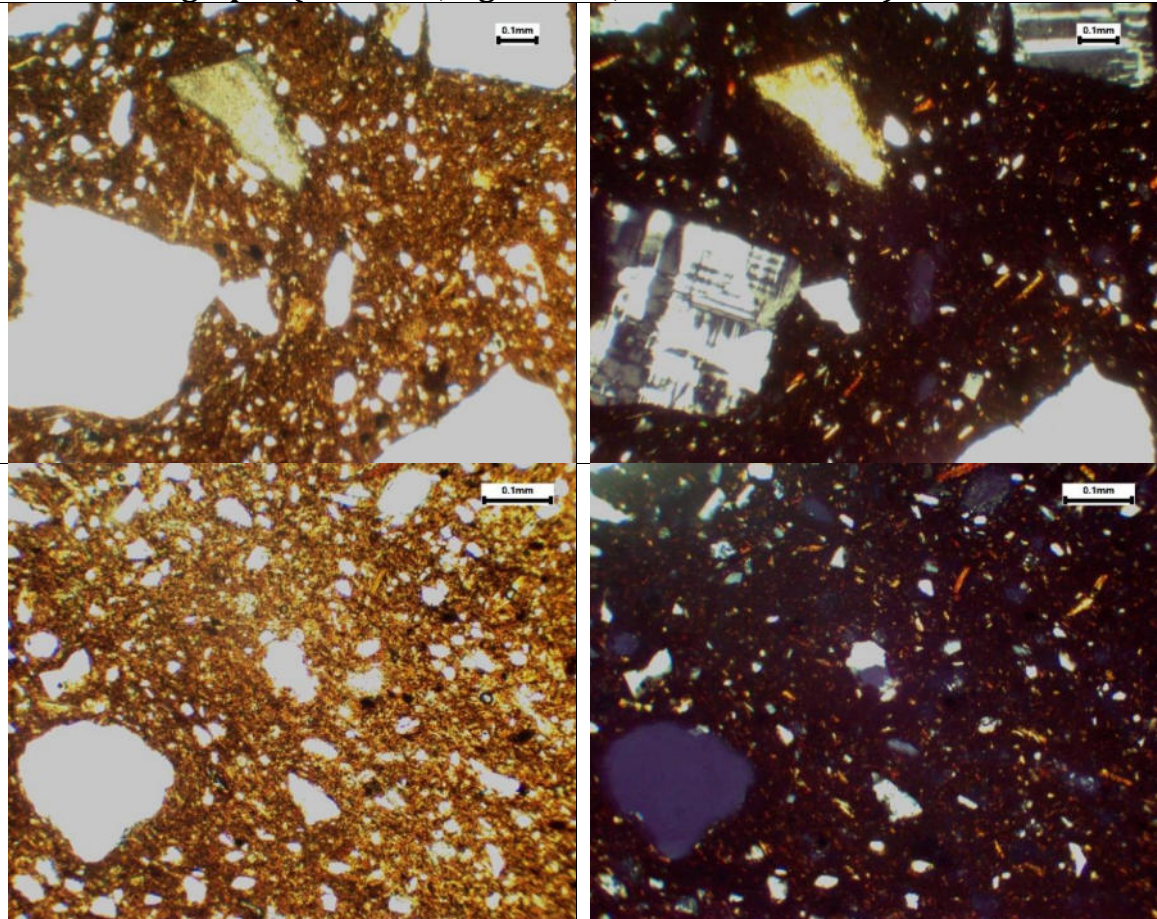
Matrix 70-72%

Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	moderate	brown/ dark brown	secondary micritic calcite?

Voids 3-5%

Type and size	Distinct characteristics
mega/ macro channels, vughs, meso vesicles	calcite accumulations in voids

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP127 MFEA Museum Number: K.1212:4 Site: Zhujiashai	Fabric group: 4B; Coarse, Quartz-Feldspar-Granodiorite fragments, lower inclusion frequency than Fabric group 4A
Sherd photo 	Fabric photo  Thin section scan 
Description MACROSCOPIC: Body sherd; reduced core with oxidised interior surface; plain; max. wall thickness 7 mm. MICROSCOPIC: Non-plastic inclusions 30% Coarse 60% - granitic rock fragments – combination of plagioclase/ microcline feldspar (dominant), quartz, muscovite, biotite (eq; s-ang; CSa) 40% - quartz (eq; s-ang; CSa) 40% - plagioclase feldspar (eq; s-ang; MSa-CSa) 15% - mica (biotite/ muscovite; lamellae; FSa-CSa) 5% Fine 40% - mica 60% - quartz 39% - feldspar 1%	

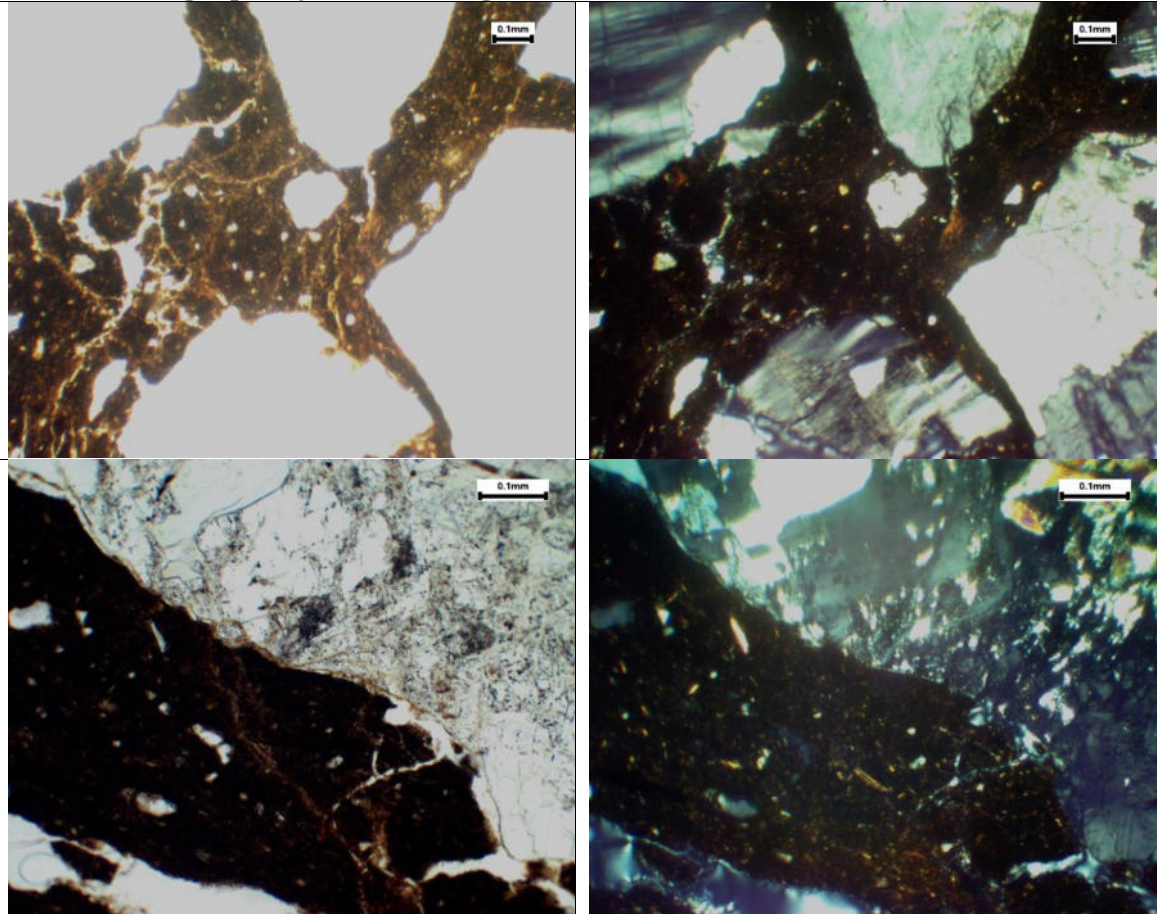
Matrix 55-70%

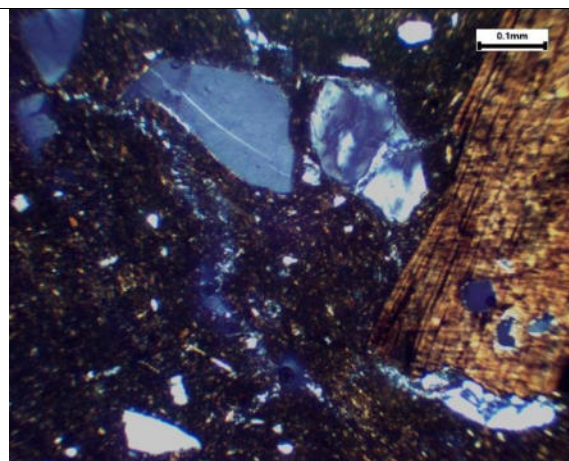
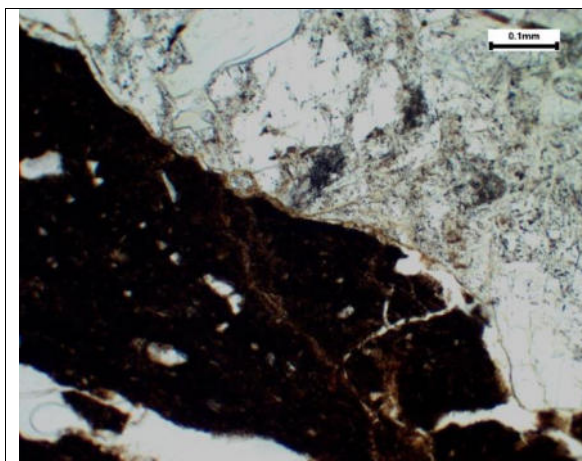
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	light brown/ dark golden brown	very coarse fabric; small amount of fine fraction in comparison to other samples in this group

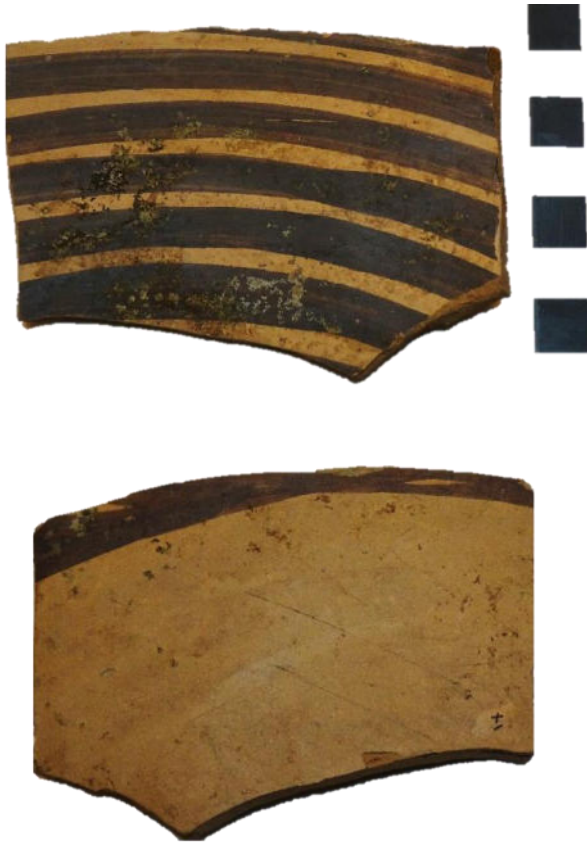
Voids 10-15%

Type and size	Distinct characteristics
mega/ macro vughs, channels, planar voids	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)





Sample code: CNP128 MFEA Museum Number: K.16000:037 Site: Luohantang	Fabric group: 1A; Fine, Mica-Quartz-Feldspar										
Sherd photo	Fabric photo										
											
Description											
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted brown outside and inside; max. wall thickness 4.8 mm.											
MICROSCOPIC: Non-plastic inclusions 20-30%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> • mica 60% • quartz 35% • feldspar 5% </td></tr></table>		Coarse 0%	Fine 100%	none	• mica 60% • quartz 35% • feldspar 5%						
Coarse 0%	Fine 100%										
none	• mica 60% • quartz 35% • feldspar 5%										
Matrix 67-77%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>active</td><td>brown/ gold brown</td><td>none</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	active	brown/ gold brown	none
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	active	brown/ gold brown	none							

Voids 3%

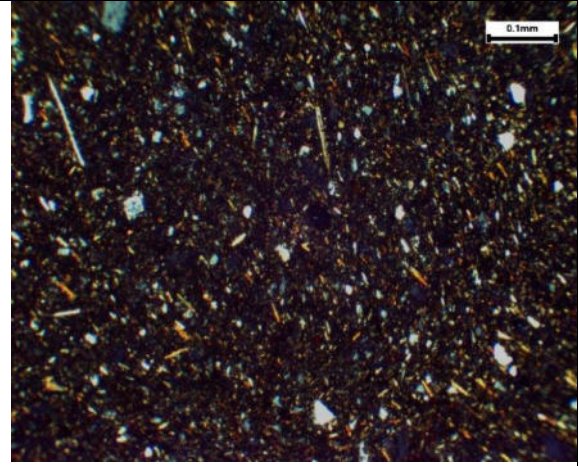
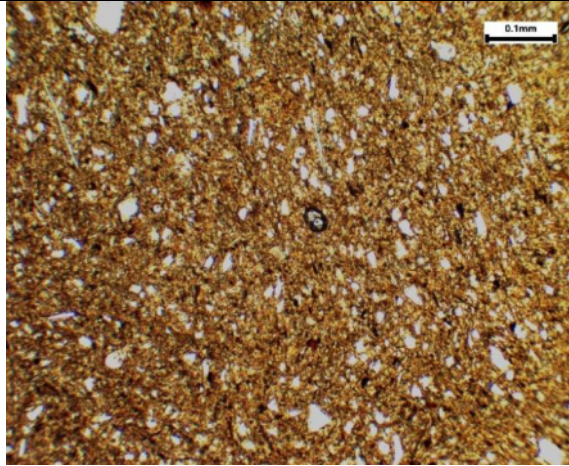
Type and size

macro/ meso vughs, vesicles

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP129 MFEA Museum Number: K.16000:038 Site: Luohantang	Fabric group: 1C; Fine, Quartz-Mica
Sherd photo	Fabric photo
	
	Thin section scan 
Description MACROSCOPIC: Neck sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 8.5 mm. MICROSCOPIC: Non-plastic inclusions 20% Coarse 1% Fine 99% - quartz (eq, el; ang – s-rnd; FSa-CSa) 95% - plagioclase feldspar (eq; ang; FSa-MSa) 5% - quartz 50% - mica 45% - feldspar 5%	

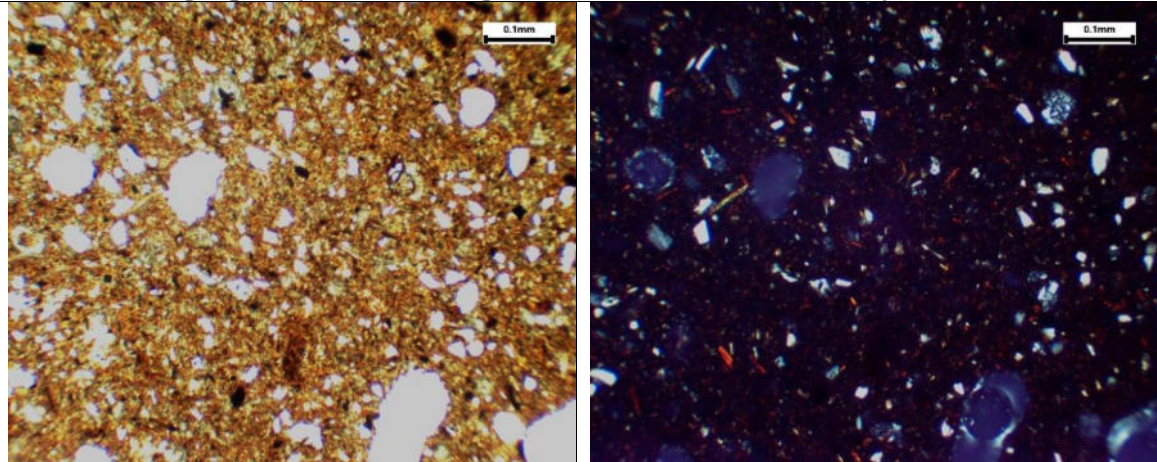
Matrix 70-75%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	moderate	brown/ dark brown	FSa- MSa clay pellets, 1-3% of the matrix

Voids 5-10%

Type and size	Distinct characteristics
macro/ meso vughs, vesicles	rare voids are filled with secondary calcite

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP130 MFEA Museum Number: K.16000:039 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets
Sherd photo	Fabric photo
	
	Thin section scan 
Description MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 6.7 mm. MICROSCOPIC: Non-plastic inclusions 15% Coarse 40% Fine 60% - plagioclase feldspar (eq; ang; MSa-FGr) 30% - quartz (eq; s-ang; MSa-CSa) 25% - biotite (lamellae; MSa-CSa) 24.5% - granitic rock fragments - quartz, biotite and/ or muscovite plagioclase (eq; ang; CSa-FGr) 20% - hornblende (rhomboid; ang; MSa) 0.5% - quartz 59% - mica 40% - feldspar 1%	

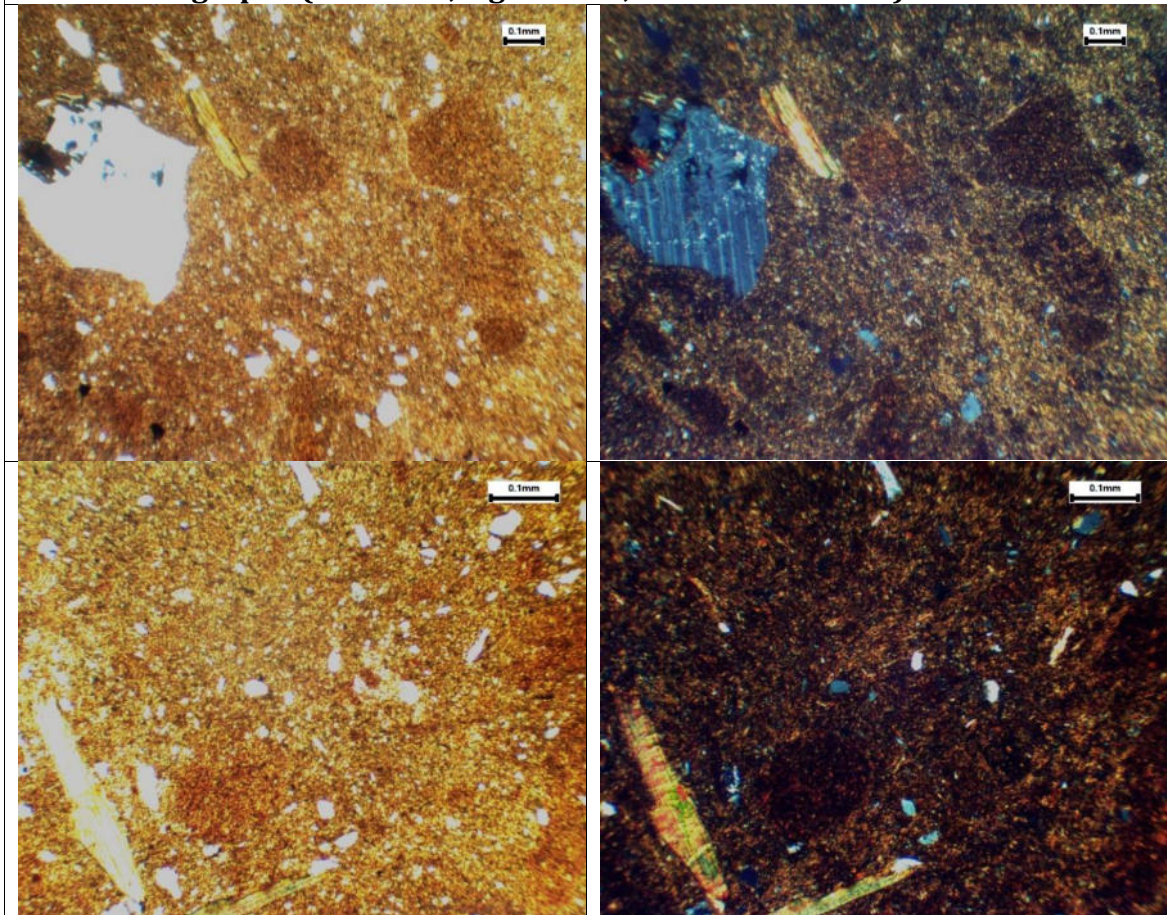
Matrix 80-82%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	brown/ golden brown	FSa-CSa clay pellets, >10% of the matrix

Voids 3-5%

Type and size	Distinct characteristics
very rare macro vughs, meso vesicles, vughs, channels	small amount of voids despite the fabric being very coarse

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)

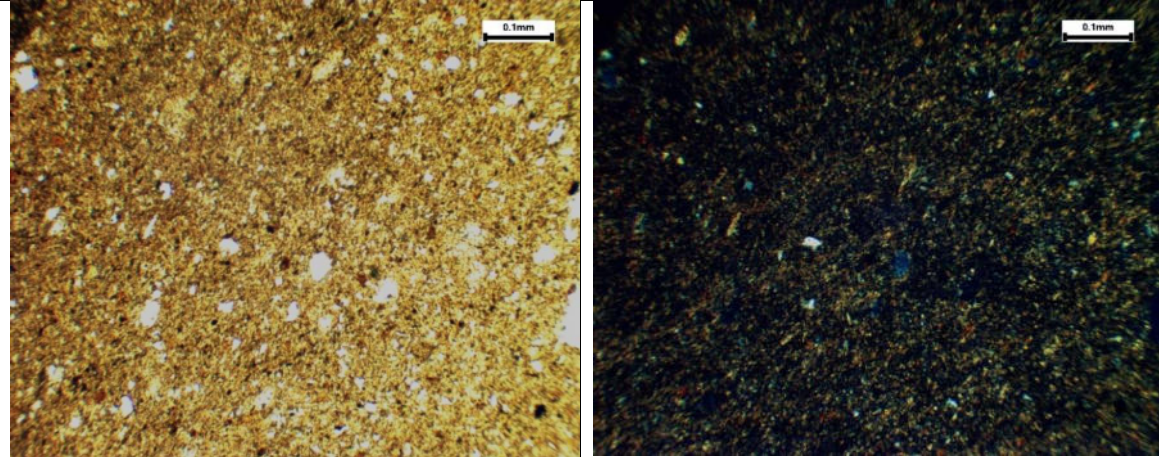


Sample code: CNP131		Fabric group: 1B; Fine, Mica-Quartz, inclusions MSi-sized and smaller		
MFEA Museum Number: K.16000:040				
Site: Luohantang				
Sherd photo		Fabric photo		
				
		Thin section scan		
				
Description				
MACROSCOPIC:				
Neck sherd; reducing(?) atmosphere, fabric has a dull yellow brown colour; polished and painted black; max. wall thickness 5.6 mm.				
MICROSCOPIC:				
Non-plastic inclusions 5%				
Coarse 0%		Fine 100%		
none		• mica 50% • quartz 40% • calcite? 10%		
Matrix 90-92%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous?	well	active	light to dark brown/ gold yellow to dark brown	Not sure if heterogeneity of the matrix is due to different thickness of the thin section, to uneven mixing or to uneven firing; fine fraction is of MSi sized and smaller

Voids 3-5%

Type and size	Distinct characteristics
meso vughs, vesicles, one macro channel	rare voids filled with secondary calcite; black rings around some voids but not direct at the margins, what does it mean?

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP132		Fabric group: 1A; Fine, Mica-Quartz-Feldspar		
MFEA Museum Number: K.16000:041				
Site: Luohantang				
Sherd photo		Fabric photo		
				
		Thin section scan		
				
Description				
MACROSCOPIC:				
Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 6 mm.				
MICROSCOPIC:				
Non-plastic inclusions 10%				
Coarse 0%		Fine 100%		
none		• mica 50% • quartz 40% • feldspar 10%		
Matrix 85%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	brown/ golden brown	FSa-MSa clay pellets, 1-3% of the matrix

Voids 5%

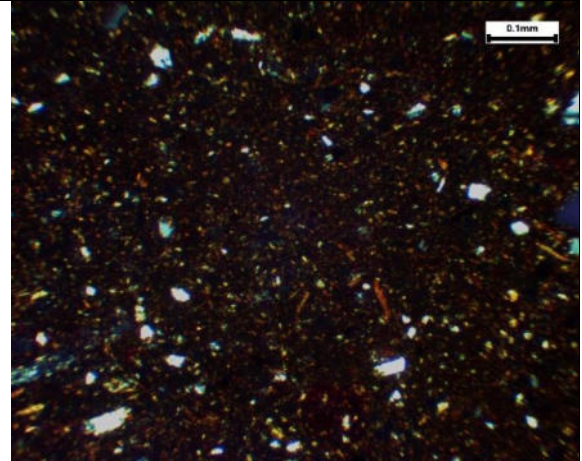
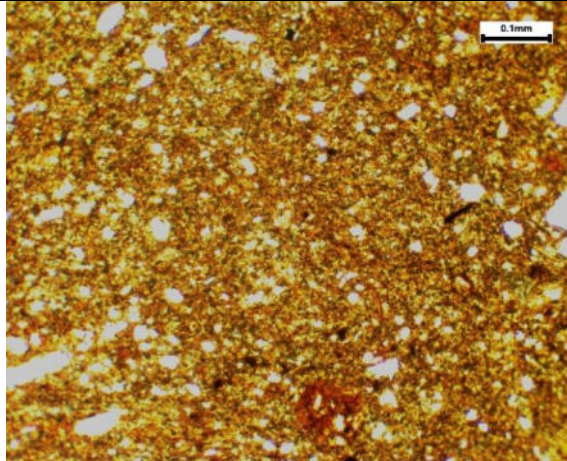
Type and size

macro/ meso vughs, vesicles, channels

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)

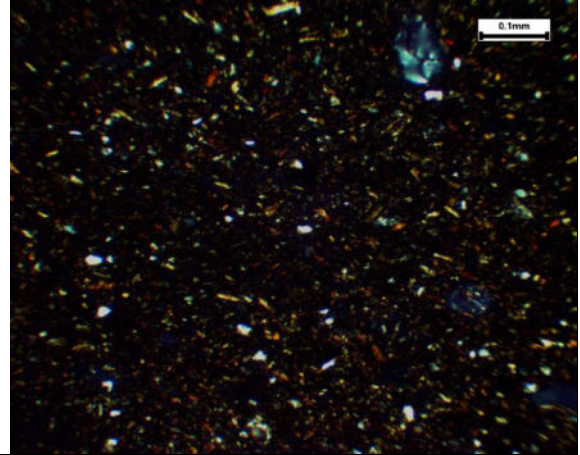
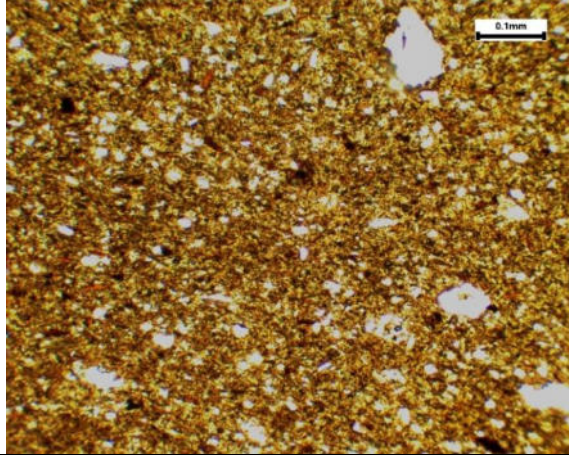


Sample code: CNP133 MFEA Museum Number: K.2170:2 Site: Luohantang	Fabric group: 1A; Fine, Mica-Quartz-Feldspar										
Sherd photo	Fabric photo										
											
Description											
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 6.1 mm.											
MICROSCOPIC: Non-plastic inclusions 10-20%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> • mica 65% • quartz 30% • feldspar 5% </td></tr></table>		Coarse 0%	Fine 100%	none	• mica 65% • quartz 30% • feldspar 5%						
Coarse 0%	Fine 100%										
none	• mica 65% • quartz 30% • feldspar 5%										
Matrix 77-87%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>active</td><td>brown / golden brown</td><td>none</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	active	brown / golden brown	none
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	active	brown / golden brown	none							

Voids 3%

Type and size	Distinct characteristics
macro/ meso vesicles, vughs, rare channels	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP134 MFEA Museum Number: K.2170:3 Site: Luohantang	Fabric group: 1A; Fine, Mica-Quartz-Feldspar				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 8.4 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 55% • quartz 40% • feldspar 5% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 55% • quartz 40% • feldspar 5%
Coarse 0%	Fine 100%				
none	• mica 55% • quartz 40% • feldspar 5%				

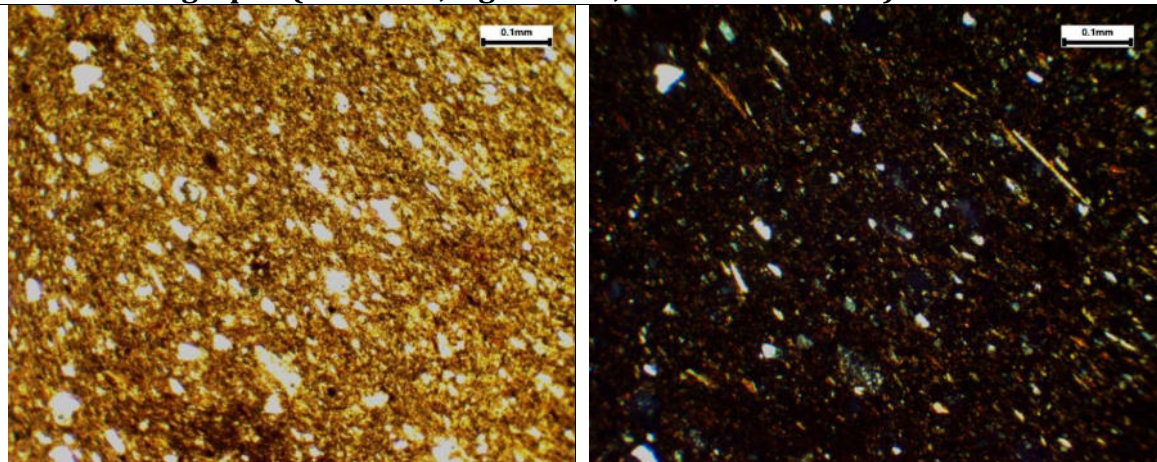
Matrix 77%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
fairly homogeneous	well	active	brown/ golden brown	MSa-CSa clay pellets, 1-3% of the matrix

Voids 3-5%

Type and size	Distinct characteristics
macro/meso vughs, few vesicles	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP135 MFEA Museum Number: K.2170:5 Site: Luohantang	Fabric group: 1A; Fine, Mica-Quartz-Feldspar			
Sherd photo	Fabric photo			
				
	Thin section scan			
				
Description				
MACROSCOPIC: Rim sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 3.3 mm, rim 6.6 mm.				
MICROSCOPIC: Non-plastic inclusions 10%				
Coarse 0%				

Voids 3-5%

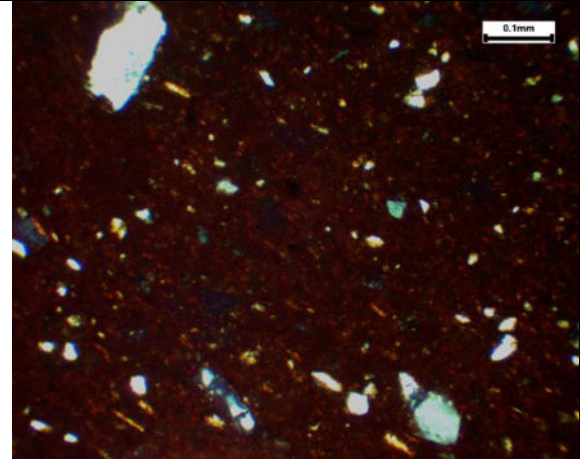
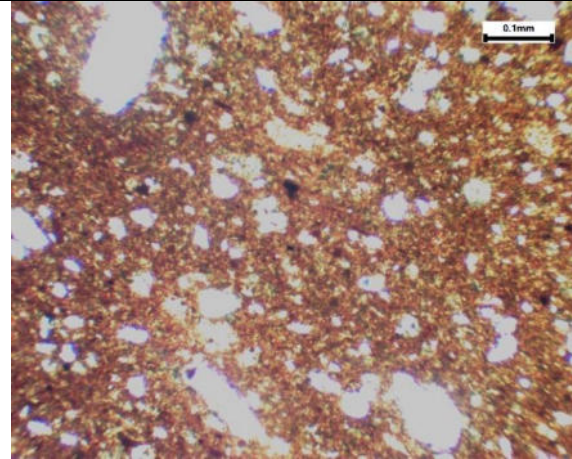
Type and size

macro/ meso vughs, vesicles

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)

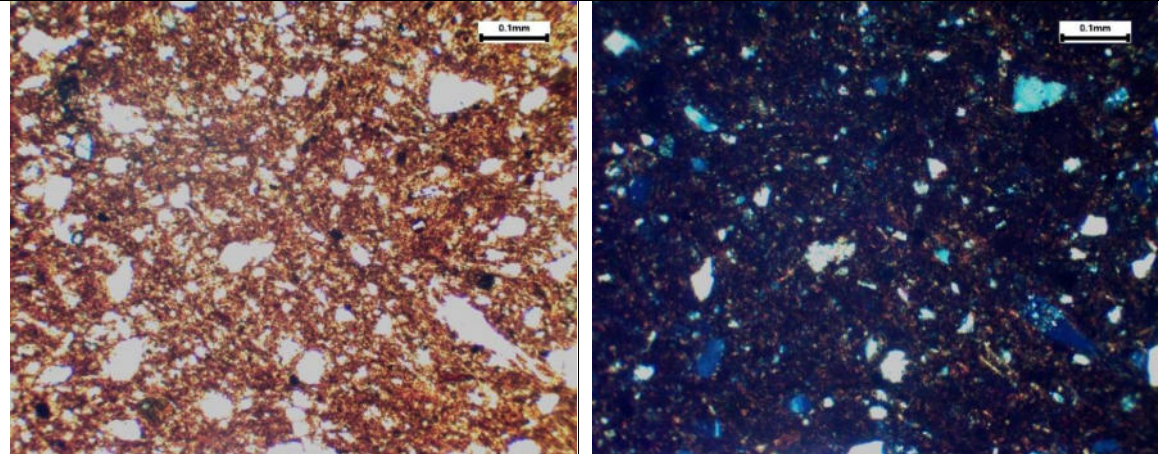


Sample code: CNP136 MFEA Museum Number: K.2170:8 Site: Luohantang	Fabric group: 1C; Fine, Quartz-Mica																
Sherd photo	Fabric photo																
																	
	Thin section scan																
																	
Description																	
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 3.5 mm.																	
MICROSCOPIC: Non-plastic inclusions 20-30%																	
<table><tr><td colspan="3">Coarse 5%</td><td colspan="3">Fine 95%</td></tr><tr><td colspan="3"> - quartz (eq; s-rnd; MSa-CSa) 99% - plagioclase feldspar (eq; ang; FSa-MSa) 1% </td><td colspan="3"> - mica 50% - quartz 49% - feldspar 1% </td></tr></table>						Coarse 5%			Fine 95%			- quartz (eq; s-rnd; MSa-CSa) 99% - plagioclase feldspar (eq; ang; FSa-MSa) 1%			- mica 50% - quartz 49% - feldspar 1%		
Coarse 5%			Fine 95%														
- quartz (eq; s-rnd; MSa-CSa) 99% - plagioclase feldspar (eq; ang; FSa-MSa) 1%			- mica 50% - quartz 49% - feldspar 1%														
Matrix 60-70%																	
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td colspan="2">Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>active</td><td>reddish brown/ golden brown</td><td colspan="2">none</td></tr></table>						Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments		homogeneous	well	active	reddish brown/ golden brown	none	
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments													
homogeneous	well	active	reddish brown/ golden brown	none													

Voids 5-10%

Type and size	Distinct characteristics
macro/ meso vughs, meso, micro vesicles	few voids are filled with secondary calcite; relic rounded nannofossil in a void

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP137 MFEA Museum Number: K.12003:1192 Site: Luohantang	Fabric group: 3; Coarse, Feldspar-Quartz-Granodiorite and Sedimentary rock fragments with large clay pellets
Sherd photo	Fabric photo
	
	Thin section scan 
Description MACROSCOPIC: Body sherd; fired in oxidising atmosphere, dull brown exterior surface; decorated with cross-cord impression and appliqué; max. wall thickness 11.1 mm. MICROSCOPIC: Non-plastic inclusions 20% Coarse 30% - plagioclase feldspar (eq; ang - s-rnd; FSa) 35% - quartz (eq, el; ang; FSa-MSa) 35% - sandstone in clay cement (eq; s-rnd; MSa-FGr) Fine 70% - quartz 40% - mica 35% - feldspar 20%	

20%

- siltstone (euhd, eq; rnd; FGr) 6%
- metamorphosing granitic rock fragments – combination of quartz, plagioclase feldspar biotite/ muscovite (eq; s-ang - s-rnd; FGr) 2%
- biotite (lamellae; FSa-MSa) 1.5%
- micritic calcite (eq; rnd; FGr) 0.5%

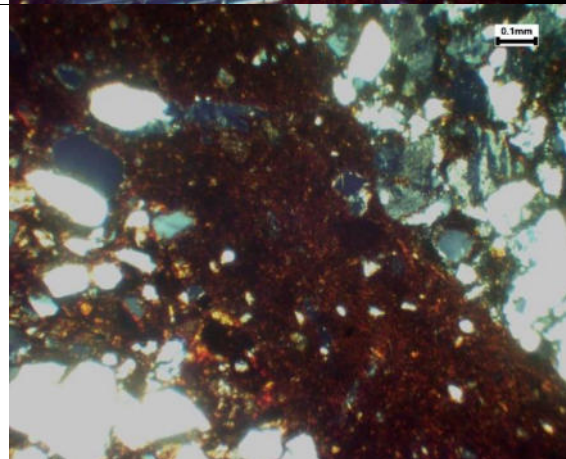
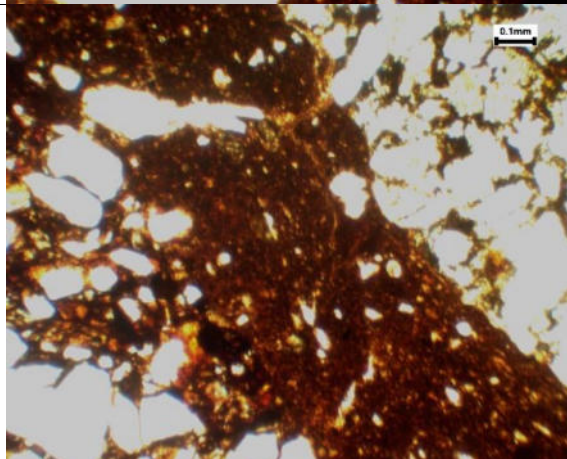
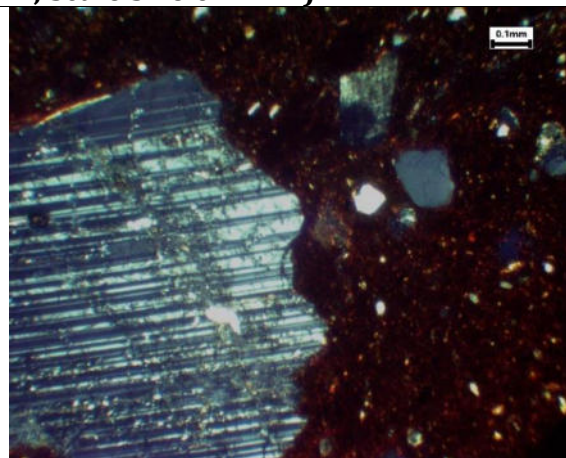
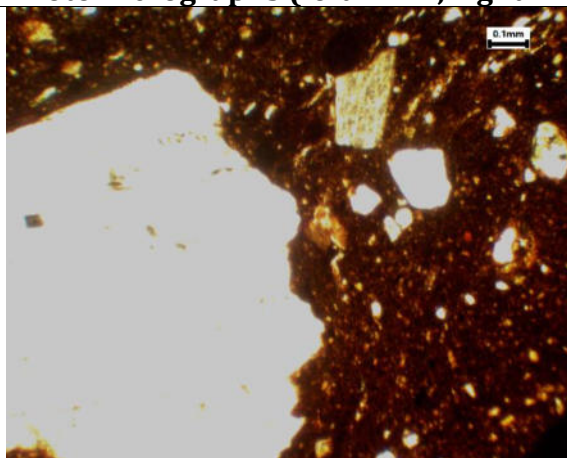
Matrix 75%

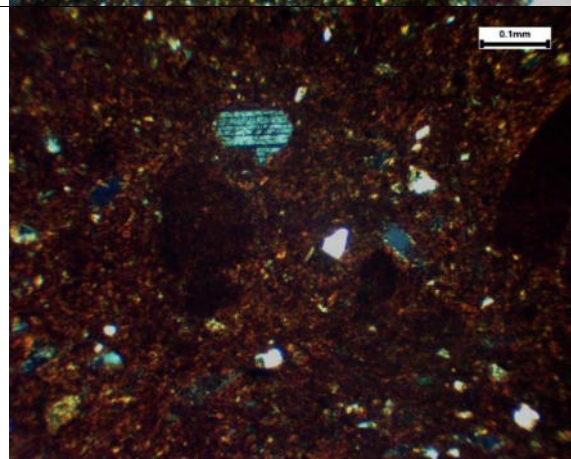
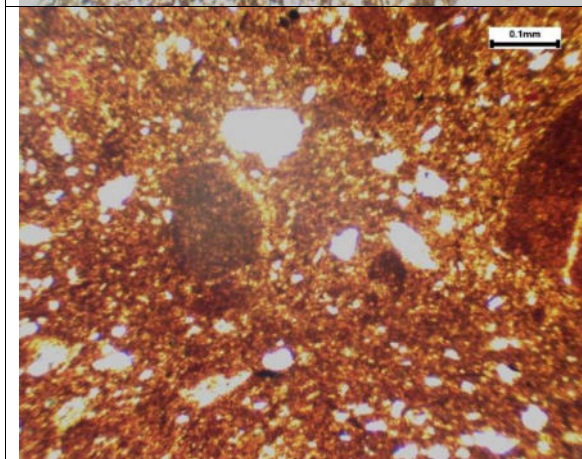
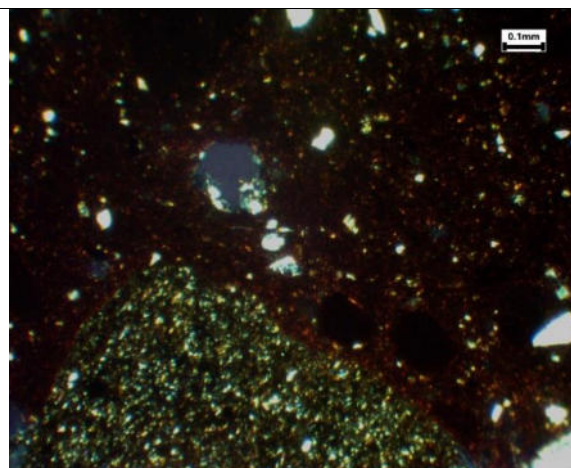
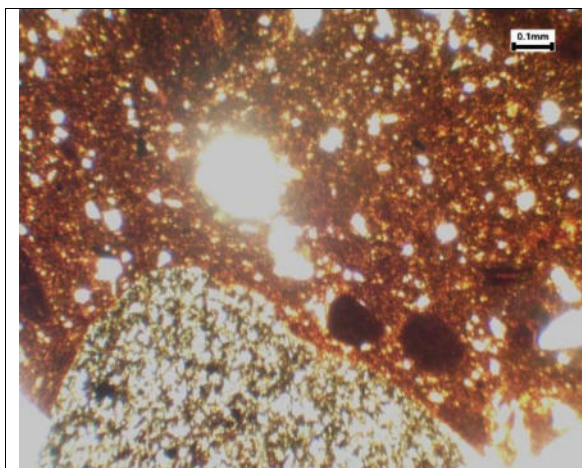
Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	brown / dark golden brown	FSa-FGr clay pellets, >10% of the matrix

Voids 5%

Type and size	Distinct characteristics
mega/ macro vughs, meso channels, rare micro vesicles	some voids are filled with secondary calcite

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)





Sample code: CNP138 MFEA Museum Number: K.12003:921 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Rim sherd; fired in oxidising atmosphere; plain; max. wall thickness 7.8 mm. MICROSCOPIC: Non-plastic inclusions 5-10% <table border="1"> <thead> <tr> <th>Coarse 3%</th> <th>Fine 97%</th> </tr> </thead> <tbody> <tr> <td> - granitic rock fragments – combinations of quartz, plagioclase feldspar, biotite, muscovite (eq; s-ang; CSa) 40% - plagioclase feldspar (eq; ang; FSa-CSa) 34.5% - quartz (eq, el; s-rnd; FSa-CSa) 20% - biotite (lamellae; MSa-CSa) 5% - sandstone (eq; rnd; MSa) 0.5% </td> <td> - mica 50% - quartz 45% - feldspar 5% </td> </tr> </tbody> </table>		Coarse 3%	Fine 97%	- granitic rock fragments – combinations of quartz, plagioclase feldspar, biotite, muscovite (eq; s-ang; CSa) 40% - plagioclase feldspar (eq; ang; FSa-CSa) 34.5% - quartz (eq, el; s-rnd; FSa-CSa) 20% - biotite (lamellae; MSa-CSa) 5% - sandstone (eq; rnd; MSa) 0.5%	- mica 50% - quartz 45% - feldspar 5%
Coarse 3%	Fine 97%				
- granitic rock fragments – combinations of quartz, plagioclase feldspar, biotite, muscovite (eq; s-ang; CSa) 40% - plagioclase feldspar (eq; ang; FSa-CSa) 34.5% - quartz (eq, el; s-rnd; FSa-CSa) 20% - biotite (lamellae; MSa-CSa) 5% - sandstone (eq; rnd; MSa) 0.5%	- mica 50% - quartz 45% - feldspar 5%				

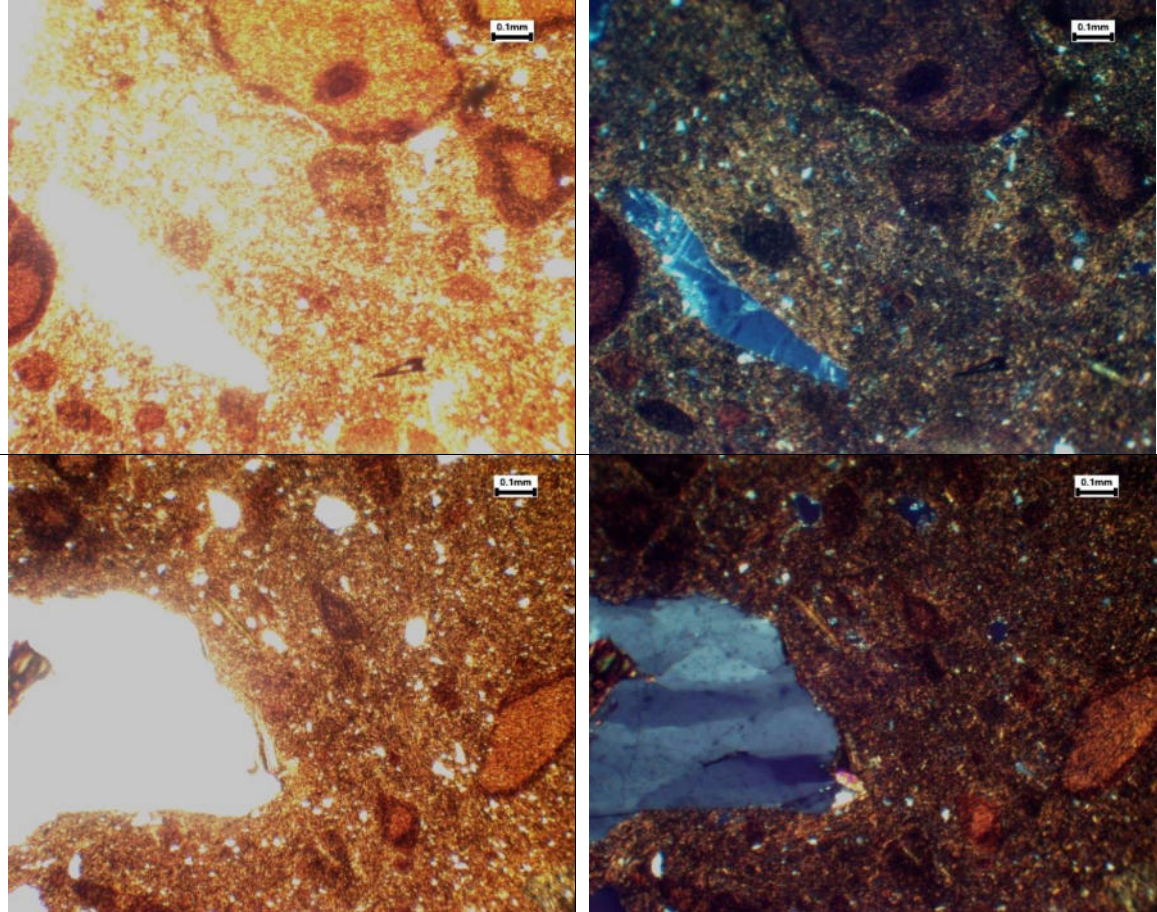
Matrix 87-92%

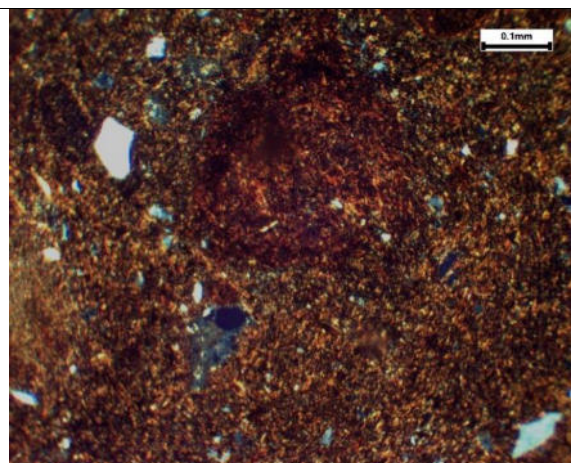
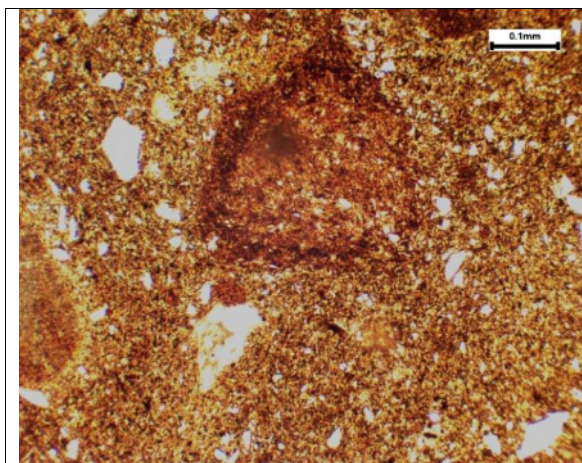
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	brown/ golden brown	FSa-FGr clay pellets, >10% of the matrix

Voids 3%

Type and size	Distinct characteristics
macro/ meso vughs, vesicles, few channels	secondary calcite accumulations in planar voids

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)





Sample code: CNP139 MFEA Museum Number: K.12003:125 Site: Luohantang	Fabric group: 1B; Fine, Mica-Quartz, inclusions MSi-sized and smaller				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted brown(?); max. wall thickness 7.4 mm. MICROSCOPIC: Non-plastic inclusions 10% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 60% • quartz 35% • feldspar 5% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 60% • quartz 35% • feldspar 5%
Coarse 0%	Fine 100%				
none	• mica 60% • quartz 35% • feldspar 5%				

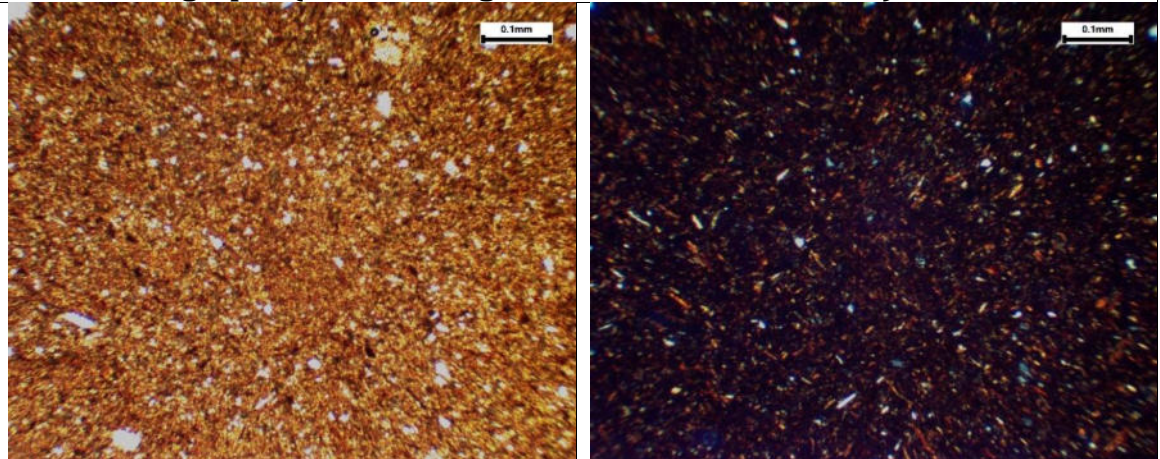
Matrix 85%

Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	brown/ golden brown	fine fraction of MSi size and smaller; MSa-CSa clay pellets, 1% of the matrix; moderate optical activity even though the high amount of fine mica gives the impression of an active matrix

Voids 5%

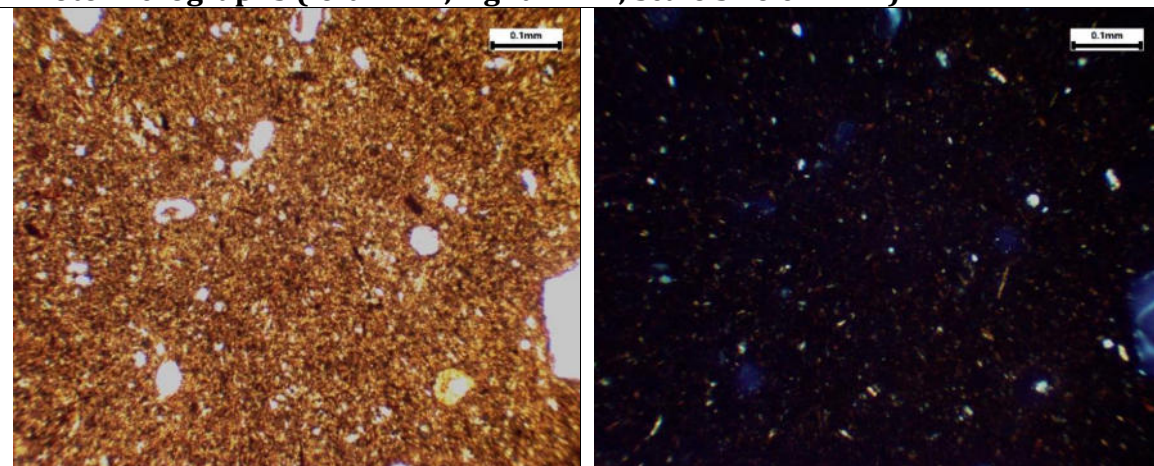
Type and size	Distinct characteristics
macro/meso vughs, vesicles, rare channels	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP140 MFEA Museum Number: K.12003:161 Site: Luohantang	Fabric group: 1B; Fine, Mica-Quartz, inclusions MSi-sized and smaller										
Sherd photo	Fabric photo										
											
	Thin section scan 										
Description											
MACROSCOPIC: Rim sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 2.6 mm, rim 5.5 mm.											
MICROSCOPIC: Non-plastic inclusions 5-10%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> • mica 60% • quartz 40% • feldspar 0.5% </td></tr></table>		Coarse 0%	Fine 100%	none	• mica 60% • quartz 40% • feldspar 0.5%						
Coarse 0%	Fine 100%										
none	• mica 60% • quartz 40% • feldspar 0.5%										
Matrix 75-80%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>active</td><td>brown/ dark brown</td><td>fine fraction is of MSi size and smaller</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	active	brown/ dark brown	fine fraction is of MSi size and smaller
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	active	brown/ dark brown	fine fraction is of MSi size and smaller							
Voids 10-15%											
<table><tr><td>Type and size</td><td>Distinct characteristics</td></tr><tr><td>macro/meso vesicles, vughs</td><td>none</td></tr></table>		Type and size	Distinct characteristics	macro/meso vesicles, vughs	none						
Type and size	Distinct characteristics										
macro/meso vesicles, vughs	none										

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP141 MFEA Museum Number: K.12003:171 Site: Luohantang	Fabric group: 1B; Fine, Mica-Quartz, inclusions MSi-sized and smaller				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Rim and neck sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 3 mm, rim 6.2 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 59.9% • quartz 40% • feldspar 0.1% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 59.9% • quartz 40% • feldspar 0.1%
Coarse 0%	Fine 100%				
none	• mica 59.9% • quartz 40% • feldspar 0.1%				

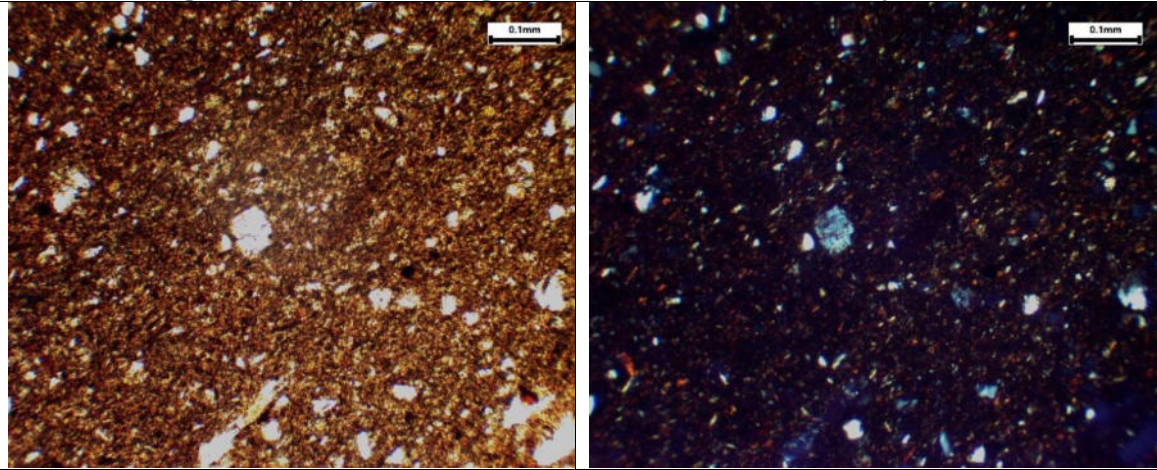
Matrix 75%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	brown/ golden brown	FSa-MSa clay pellets; 1% of the matrix

Voids 5%

Type and size	Distinct characteristics
macro/ meso channels, vughs	Voids mostly are aligned parallel to the long edge.

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP142 MFEA Museum Number: K.12003:925 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets												
Sherd photo 	Fabric photo  Thin section scan 												
Description MACROSCOPIC: Rim sherd; fired in oxidising atmosphere; plain; max. wall thickness 7.5 mm. MICROSCOPIC: Non-plastic inclusions 10-15% <table> <thead> <tr> <th>Coarse 10%</th><th>Fine 90%</th></tr> </thead> <tbody> <tr> <td> - granitic rock fragments - combination of quartz, biotite, microcline/ plagioclase feldspar (eq, el; ang – s-ang; CSa-FGr) 40% </td><td> - quartz 50% </td></tr> <tr> <td> - plagioclase feldspar (eq; s-ang; MSa) 35% </td><td> - mica 45% </td></tr> <tr> <td> - biotite (lamellae; MSa-CSa) 15% </td><td> - feldspar 5% </td></tr> <tr> <td> - quartz (eq, el; s-ang; FSa-MSa) 9% </td><td></td></tr> <tr> <td> - siltstone (eq; rnd; CSa) 1% </td><td></td></tr> </tbody> </table>		Coarse 10%	Fine 90%	granitic rock fragments - combination of quartz, biotite, microcline/ plagioclase feldspar (eq, el; ang – s-ang; CSa-FGr) 40%	quartz 50%	plagioclase feldspar (eq; s-ang; MSa) 35%	mica 45%	biotite (lamellae; MSa-CSa) 15%	feldspar 5%	quartz (eq, el; s-ang; FSa-MSa) 9%		siltstone (eq; rnd; CSa) 1%	
Coarse 10%	Fine 90%												
granitic rock fragments - combination of quartz, biotite, microcline/ plagioclase feldspar (eq, el; ang – s-ang; CSa-FGr) 40%	quartz 50%												
plagioclase feldspar (eq; s-ang; MSa) 35%	mica 45%												
biotite (lamellae; MSa-CSa) 15%	feldspar 5%												
quartz (eq, el; s-ang; FSa-MSa) 9%													
siltstone (eq; rnd; CSa) 1%													

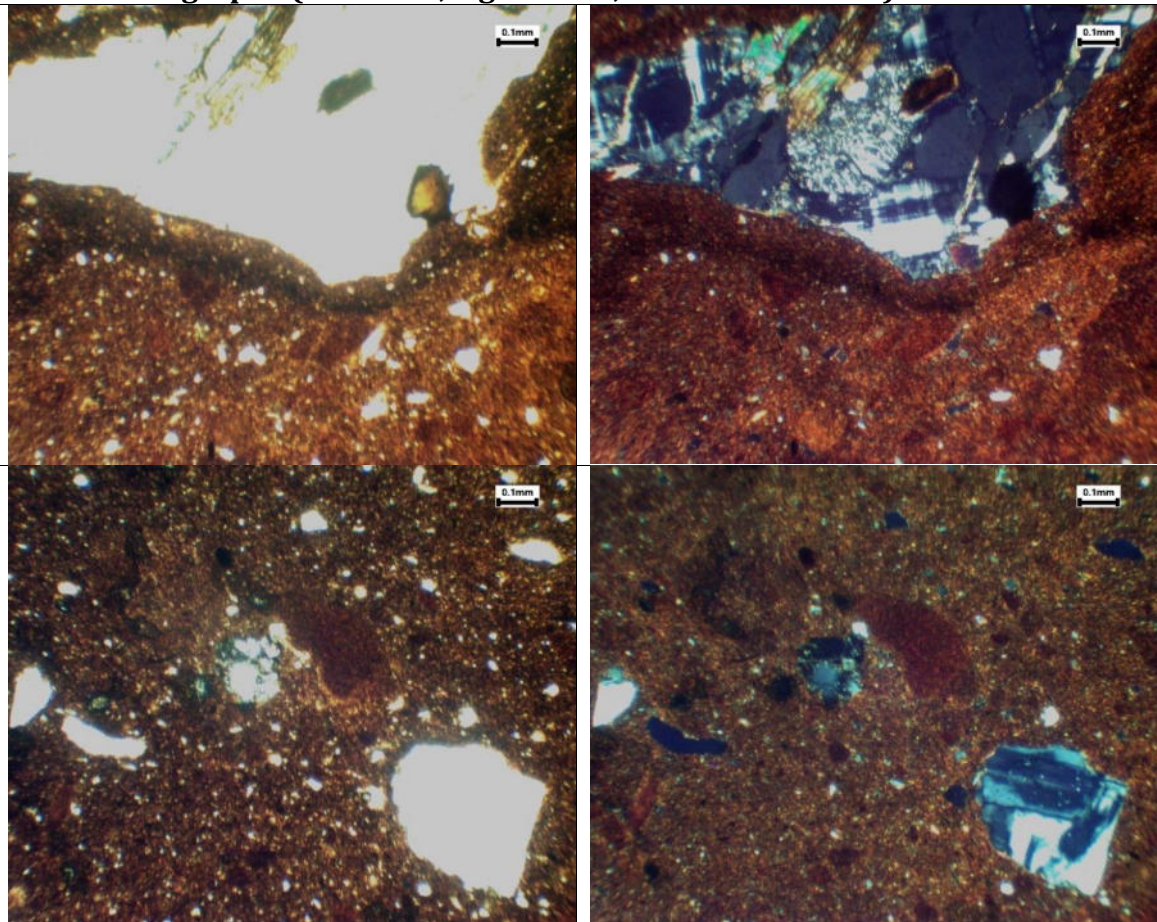
Matrix 80-85%

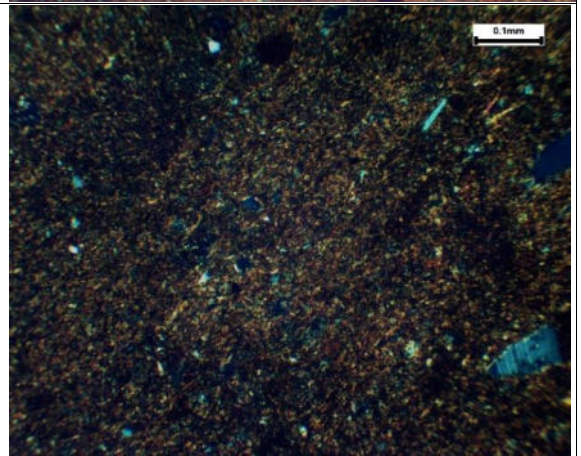
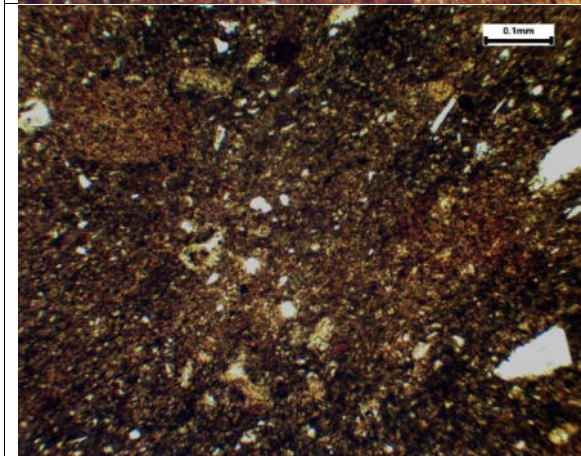
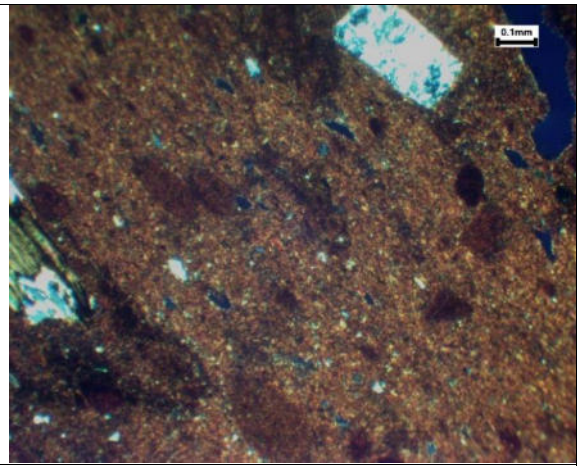
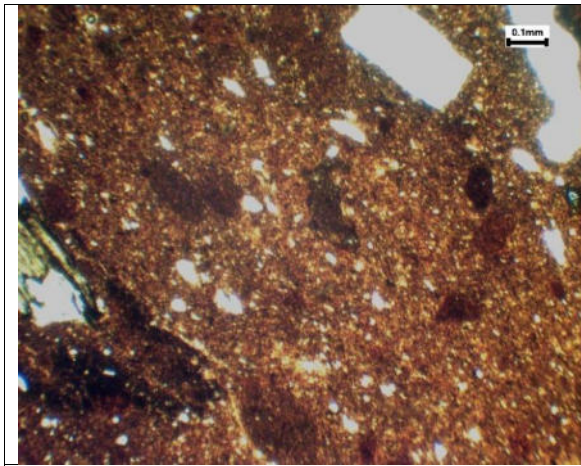
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	brown to grey/ golden brown	FSa-CSa clay pellets, >10% of the matrix

Voids 5%

Type and size	Distinct characteristics
macro channels, meso vughs, vesicles	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)





Sample code: CNP143 MFEA Museum Number: K.12003:254 Site: Luohantang	Fabric group: 6B Coarse-Fine-combination: Coarse Quartz and Quartz Mica Schist and Sedimentary rock fragments						
Sherd photo 	Fabric photo  Thin section scan 						
Description MACROSCOPIC: Neck and shoulder sherd; reduced core, oxidised margins; neck is polished and painted black, shoulder shows cord impressions(?); max. wall thickness 11.2 mm. MICROSCOPIC: Non-plastic inclusions 25-30% <table border="1"> <tr> <td>Coarse fabric 30% inclusions</td> <td>Fine 25%</td> </tr> <tr> <td>Coarse 10%</td> <td>Coarse 0%</td> </tr> <tr> <td></td> <td>Fine 100%</td> </tr> </table>		Coarse fabric 30% inclusions	Fine 25%	Coarse 10%	Coarse 0%		Fine 100%
Coarse fabric 30% inclusions	Fine 25%						
Coarse 10%	Coarse 0%						
	Fine 100%						

- quartz (eq, el; ang – s-rnd; FSa-FGr) 55%
- sandstone grit in clay cement (eq, el; s-ang; CSa) 20%
- quartz-mica schist (eq, el; s-rnd; CSa) 15%
- siltstone (el; rnd; FGr) 10%
- mica 50%
- quartz 49.9%
- feldspar 0.1%?

Fine 90%

- mica 50%
- quartz 49.9%
- feldspar 0.1%?

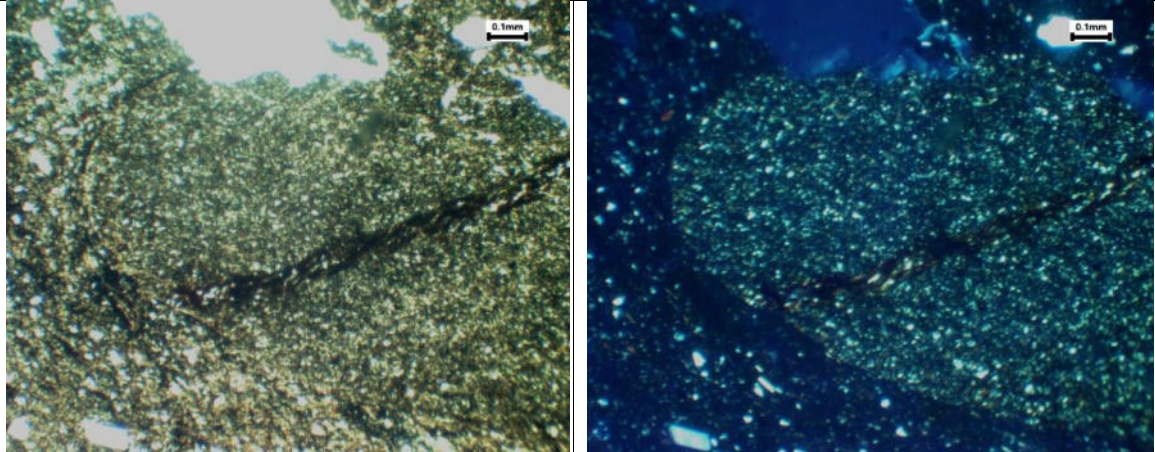
Matrix 60-65%

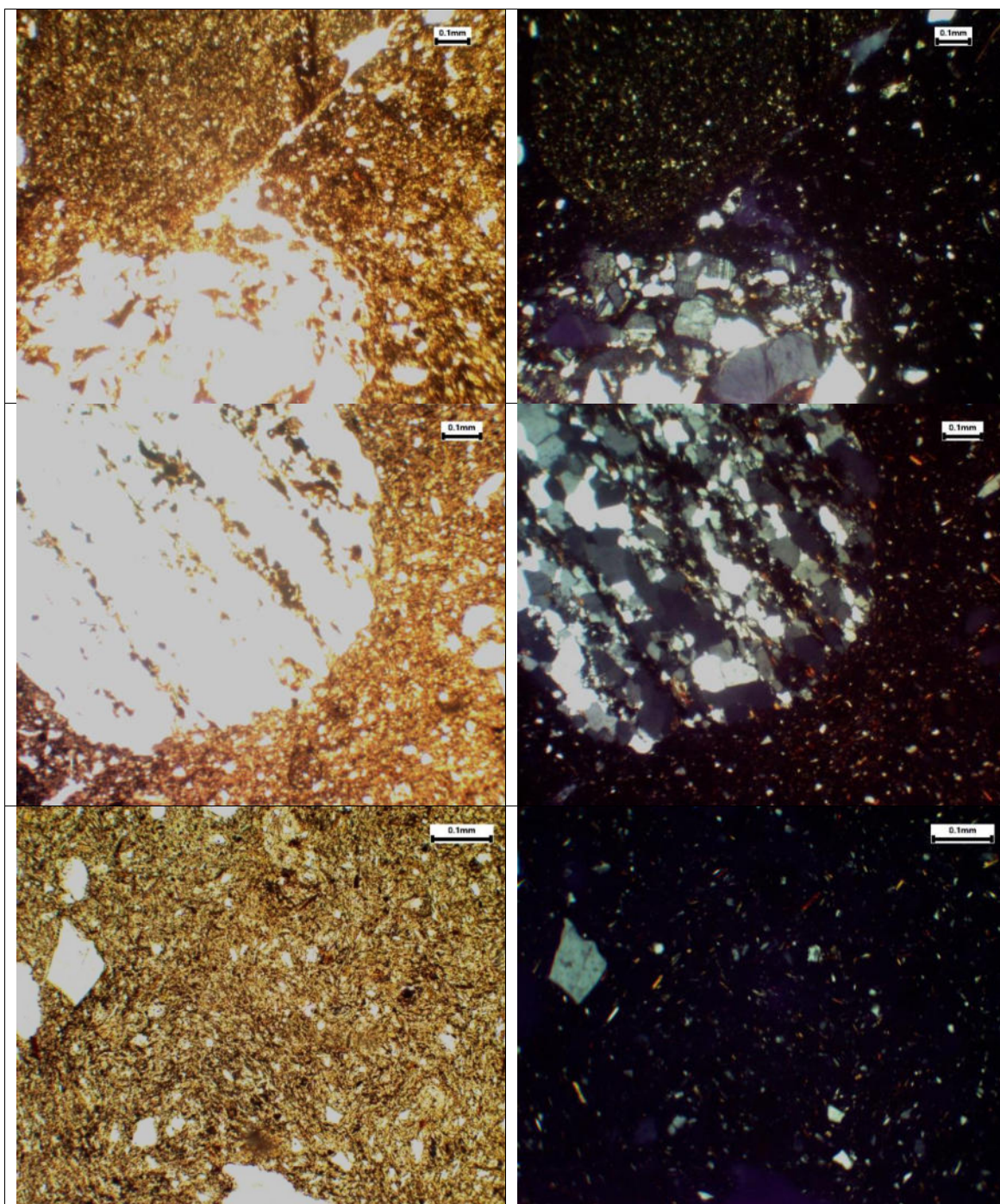
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	coarse fabric: poor fine fabric: well	inactive	grey to dark brown/ dark grey	The coarse and the fine parts have the same groundmass.

Voids 5-10%

Type and size	Distinct characteristics
one mega channel and one mega vugh, macro/ meso vughs, rare vesicles	rare voids filled with secondary calcite, mega voids are located on the joint between shoulder and neck

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



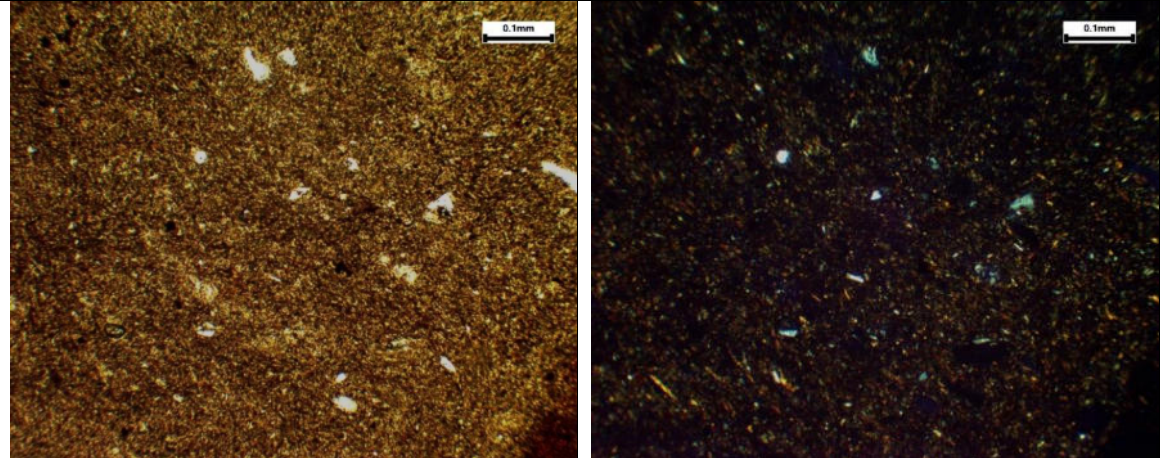


Sample code: CNP144 MFEA Museum Number: K.12003:267 Site: Luohantang	Fabric group: 1B; Fine, Mica-Quartz, inclusions MSi-sized and smaller										
Sherd photo	Fabric photo										
											
	Thin section scan										
Description											
MACROSCOPIC: Full profile sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 4.6 mm.											
MICROSCOPIC: Non-plastic inclusions 10-15%											
<table><tr><td colspan="2">Coarse < 0.1%</td><td colspan="2">Fine 99.9%</td></tr><tr><td colspan="2"> - quartz (eq, el; s-ang; FSa-MSa) 67% - haematite? (eq; rnd; CSa) 33% </td><td colspan="2"> - mica 70% - quartz 30% </td></tr></table>		Coarse < 0.1%		Fine 99.9%		- quartz (eq, el; s-ang; FSa-MSa) 67% - haematite? (eq; rnd; CSa) 33%		- mica 70% - quartz 30%			
Coarse < 0.1%		Fine 99.9%									
- quartz (eq, el; s-ang; FSa-MSa) 67% - haematite? (eq; rnd; CSa) 33%		- mica 70% - quartz 30%									
Matrix 80-89%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>active</td><td>greenish brown / golden brown</td><td>fine fraction of MSi size and smaller; CSa-FGr clay pellets, 1% of the matrix</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	active	greenish brown / golden brown	fine fraction of MSi size and smaller; CSa-FGr clay pellets, 1% of the matrix
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	active	greenish brown / golden brown	fine fraction of MSi size and smaller; CSa-FGr clay pellets, 1% of the matrix							

Voids 1-5%

Type and size	Distinct characteristics
macro/ meso vughs, vesicles, rare channels	Some large voids are filled with secondary calcite.

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP145 MFEA Museum Number: K.12003:278 Site: Luohantang	Fabric group: 7; Coarse-Fine-combination: Coarse Granodiorite and Quartz fragments						
Sherd photo	Fabric photo						
							
	Thin section scan 						
Description							
MACROSCOPIC: Body and handle sherd; reduced core, oxidised margins; upper half is polished and painted black, lower half has diagonal(?) cord impression; max. wall thickness 6.5 mm. MICROSCOPIC: Non-plastic inclusions 30-35% of the entire sherd <table border="0"> <tr> <td>Coarse fabric 35% inclusions</td><td>Fine fabric 30%</td></tr> <tr> <td>Coarse 5-10%:</td><td>Coarse 0%</td></tr> <tr> <td> granitic rock fragments – combination of quartz, </td><td>Fine 100%:</td></tr> </table>		Coarse fabric 35% inclusions	Fine fabric 30%	Coarse 5-10%:	Coarse 0%	granitic rock fragments – combination of quartz,	Fine 100%:
Coarse fabric 35% inclusions	Fine fabric 30%						
Coarse 5-10%:	Coarse 0%						
granitic rock fragments – combination of quartz,	Fine 100%:						

Sample code: CNP146 MFEA Museum Number: K.12003:284 Site: Luohantang	Fabric group: 1B; Fine, Mica-Quartz, inclusions MSi-sized and smaller				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 4.6 mm. MICROSCOPIC: Non-plastic inclusions 15% <table border="0"> <tr> <td>Coarse 0%</td> <td>Fine 100%</td> </tr> <tr> <td>none</td> <td> • mica 70% • quartz 30% </td> </tr> </table>		Coarse 0%	Fine 100%	none	• mica 70% • quartz 30%
Coarse 0%	Fine 100%				
none	• mica 70% • quartz 30%				

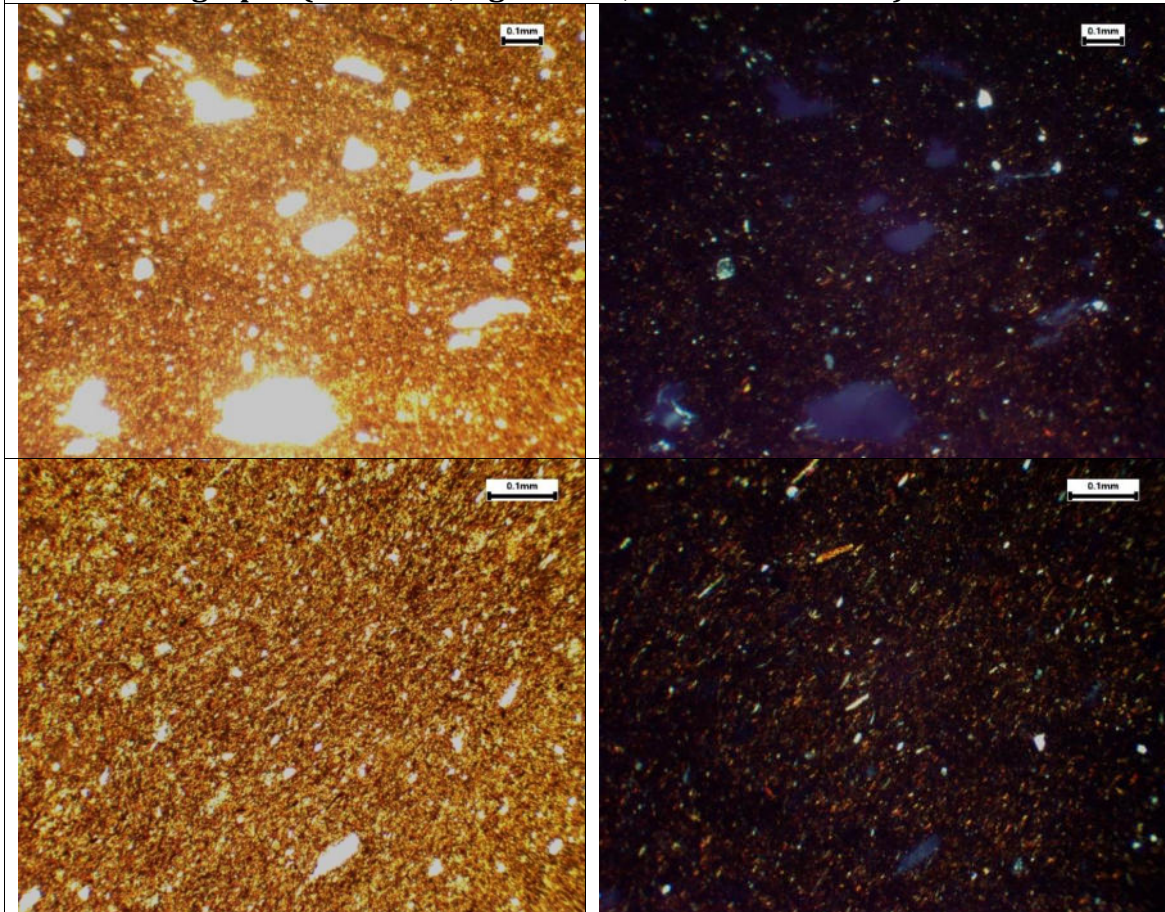
Matrix 70-85%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	brown/ golden brown	fine fraction is of MSi size and smaller; MSa-CSa clay pellets, 1% of the matrix

Voids 20%

Type and size	Distinct characteristics
meso/ macro vughs, vesicles, channels	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP147 MFEA Museum Number: K.12003.372 Site: Luohantang	Fabric group: 1A; Fine, Mica-Quartz-Feldspar										
Sherd photo	Fabric photo										
											
	Thin section scan										
Description											
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 6.2 mm.											
MICROSCOPIC: Non-plastic inclusions 20%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> • mica 59.5% • quartz 40% • feldspar 0.5% </td></tr></table>		Coarse 0%	Fine 100%	none	• mica 59.5% • quartz 40% • feldspar 0.5%						
Coarse 0%	Fine 100%										
none	• mica 59.5% • quartz 40% • feldspar 0.5%										
Matrix 77%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>moderate</td><td>brown/ golden brown</td><td>FSa-MSa clay pellets, 3-5% of the matrix</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	moderate	brown/ golden brown	FSa-MSa clay pellets, 3-5% of the matrix
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	moderate	brown/ golden brown	FSa-MSa clay pellets, 3-5% of the matrix							

Voids 3%

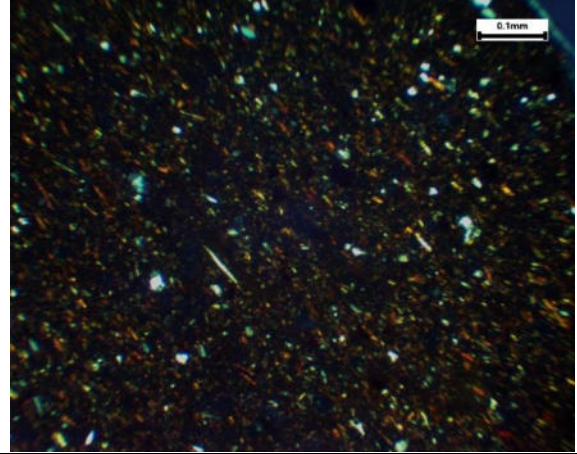
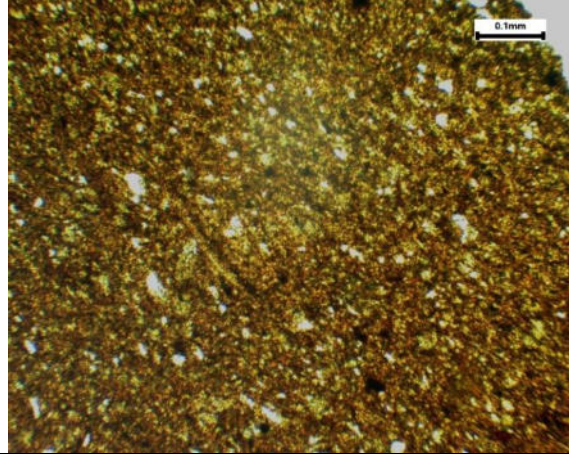
Type and size

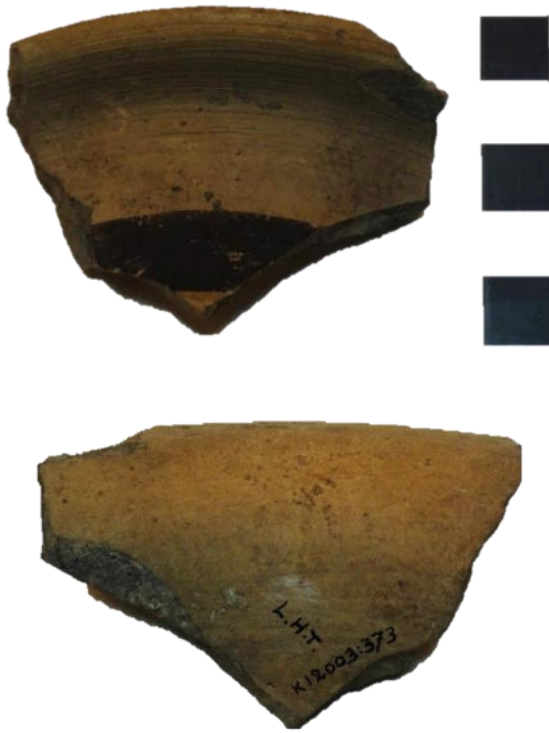
Distinct characteristics

one mega-channel, meso/macro vughs, vesicles, rare channels

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)

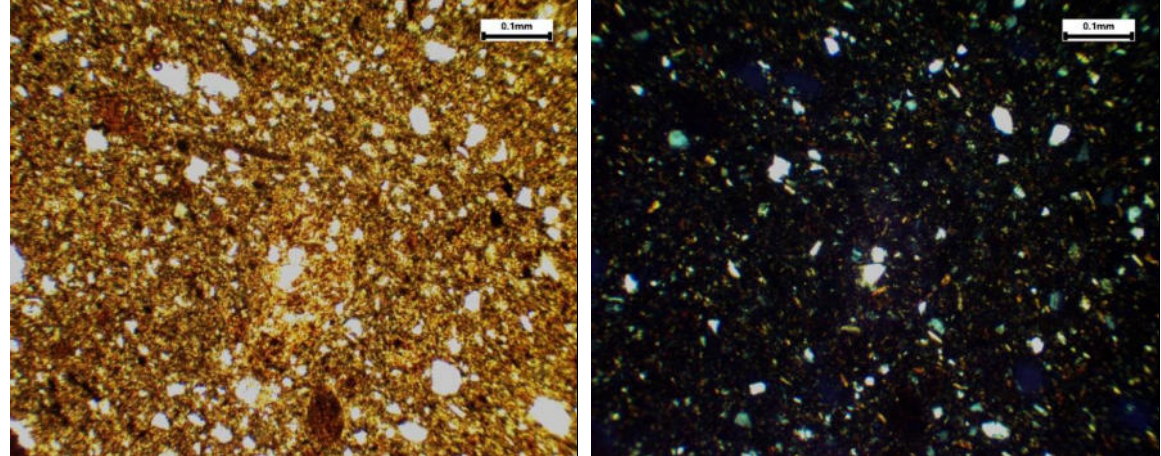


Sample code: CNP148 MFEA Museum Number: K.12003:373 Site: Luohantang	Fabric group: 1A; Fine, Mica-Quartz-Feldspar										
Sherd photo	Fabric photo										
	 Thin section scan 										
Description											
MACROSCOPIC: Rim sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 7 mm.											
MICROSCOPIC: Non-plastic inclusions 20-30%											
<table><tr><td colspan="2">Coarse 0%</td><td colspan="3">Fine 100%</td></tr><tr><td colspan="2">none</td><td colspan="3"> • mica 59% • quartz 49% • feldspar 1% </td></tr></table>		Coarse 0%		Fine 100%			none		• mica 59% • quartz 49% • feldspar 1%		
Coarse 0%		Fine 100%									
none		• mica 59% • quartz 49% • feldspar 1%									
Matrix 67-77%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>active</td><td>brown/ golden brown</td><td>none</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	active	brown/ golden brown	none
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	active	brown/ golden brown	none							

Voids 3%

Type and size	Distinct characteristics
macro/ meso vughs, vesicles	some voids are filled with secondary calcite; more meso-sized than macro

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP149 MFEA Museum Number: K.12003:378 Site: Luohantang	Fabric group: 1B; Fine, Mica-Quartz, inclusions MSi-sized and smaller				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Rim and upper body sherd; reduced core, oxidised margins; polished and painted black; max. wall thickness 5.8 mm. MICROSCOPIC: Non-plastic inclusions 15% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 70% • quartz 30% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 70% • quartz 30%
Coarse 0%	Fine 100%				
none	• mica 70% • quartz 30%				

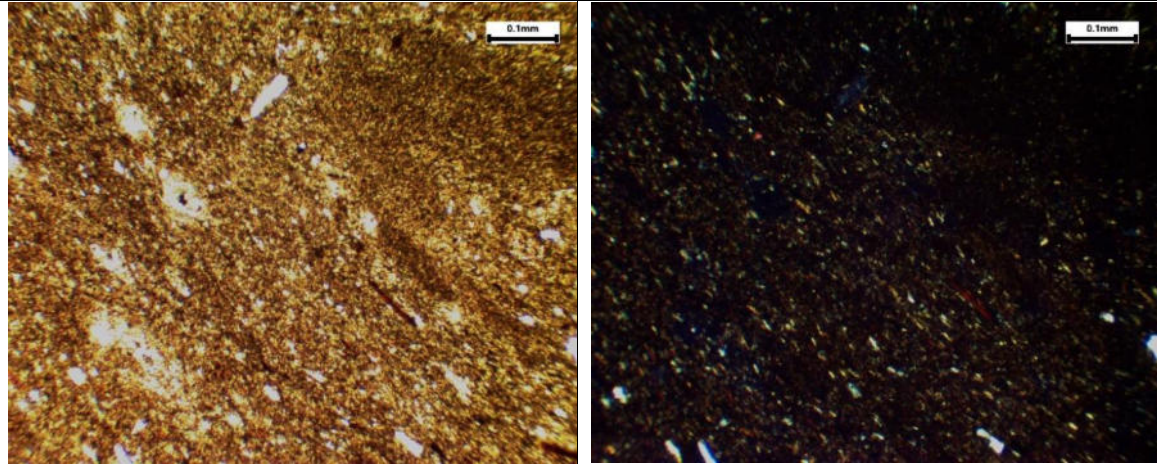
Matrix 90-95%

Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	well	active	brown/ golden brown	fine fraction of MSi size and smaller; few MSa-CSa clay pellets, 3-5% of the matrix; poor mixing – matrix in patches

Voids 1-5%

Type and size	Distinct characteristics
meso/ macro vughs, vesicles	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP150 MFEA Museum Number: K.12003:403 Site: Luohantang	Fabric group: 1B; Fine, Mica-Quartz, inclusions MSi-sized and smaller				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description MACROSCOPIC: Body sherd; fired in oxidising atmosphere; polished and painted black; max. wall thickness 5 mm. MICROSCOPIC: Non-plastic inclusions 15% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 70% • quartz 30% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 70% • quartz 30%
Coarse 0%	Fine 100%				
none	• mica 70% • quartz 30%				

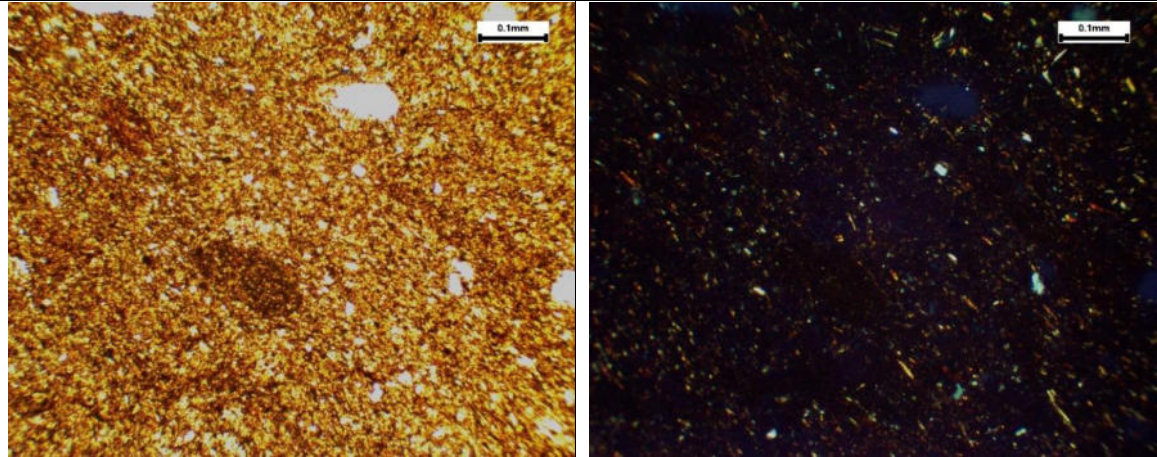
Matrix 85-90%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	brown/ golden brown	FSa-MSa clay pellets, 3-5% of the matrix; dispersed secondary calcite or naturally present redeposited calcite?

Voids 5%

Type and size	Distinct characteristics
meso vughs, vesicles	Large voids are filled with secondary calcite.

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP151 MFEA Museum Number: K.12003:406 Site: Luohantang	Fabric group: 1A; Fine, Mica-Quartz-Feldspar										
Sherd photo	Fabric photo										
											
	Thin section scan										
											
Description											
MACROSCOPIC: Body sherd; reduced core, oxidised margins; polished and painted black; max. wall thickness 7.2 mm.											
MICROSCOPIC: Non-plastic inclusions 20%											
<table><tr><td>Coarse 0%</td><td>Fine 100%</td></tr><tr><td>none</td><td> • mica 55% • quartz 40% • feldspar 5% </td></tr></table>		Coarse 0%	Fine 100%	none	• mica 55% • quartz 40% • feldspar 5%						
Coarse 0%	Fine 100%										
none	• mica 55% • quartz 40% • feldspar 5%										
Matrix 77%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>homogeneous</td><td>well</td><td>moderate</td><td>greyish brown/ golden brown</td><td>dispersed secondary or naturally present calcite?</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	homogeneous	well	moderate	greyish brown/ golden brown	dispersed secondary or naturally present calcite?
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
homogeneous	well	moderate	greyish brown/ golden brown	dispersed secondary or naturally present calcite?							

Voids 3%

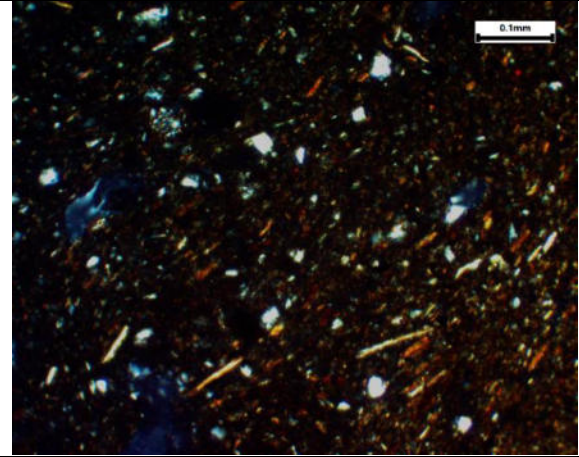
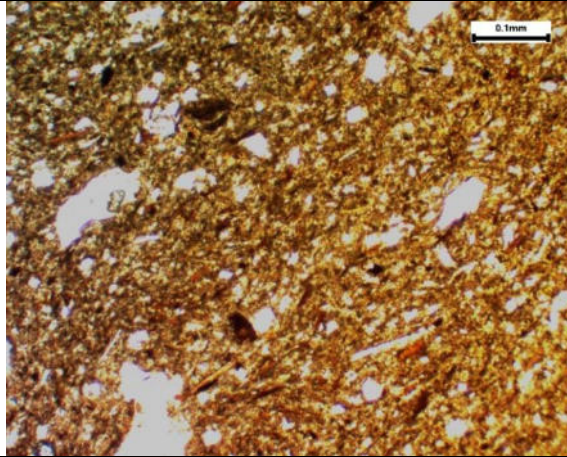
Type and size

macro/ meso vughs, vesicles, channels

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP152 MFEA Museum Number: K.12003:409 Site: Luohantang	Fabric group: 1A; Fine, Mica-Quartz-Feldspar				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description MACROSCOPIC: Body sherd; not fully oxidised inner layer, oxidised outer layer; polished and painted black; max. wall thickness 9.2 mm. MICROSCOPIC: Non-plastic inclusions 20% <table> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> <tr> <td>none</td> <td> • mica 50% • quartz 40% • feldspar 10% </td> </tr> </table>		Coarse 0%	Fine 100%	none	• mica 50% • quartz 40% • feldspar 10%
Coarse 0%	Fine 100%				
none	• mica 50% • quartz 40% • feldspar 10%				

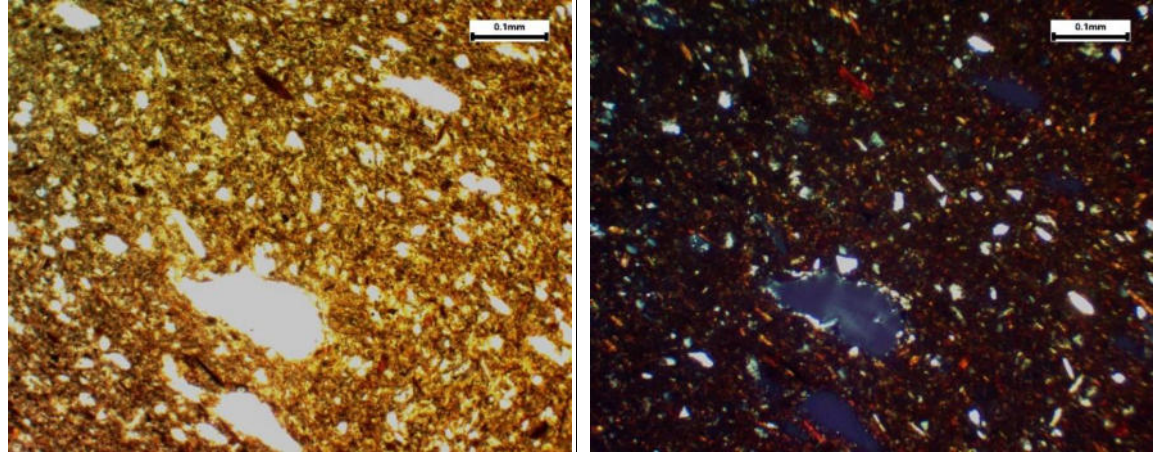
Matrix 75%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	well	moderate	brown/ golden greyish brown	MSa-FGr clay pellets, 5-10% of the matrix; dispersed secondary or naturally present calcite?

Voids 5%

Type and size	Distinct characteristics
mega/ macro/ meso vughs, channels, vesicles	one mega channel, one mega vugh

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP153 MFEA Museum Number: K.12003:419 Site: Luohantang	Fabric group: 1A; Fine, Mica-Quartz-Feldspar
Sherd photo	Fabric photo
	
	Thin section scan 
Description	
MACROSCOPIC:	
Body sherd; reduced core, oxidised margins; polished and painted black; max. wall thickness 9.2 mm.	
MICROSCOPIC:	
Non-plastic inclusions 30%	
Coarse 0%	Fine 100%
none	• mica 55%
	• quartz 40%
	• feldspar 5%

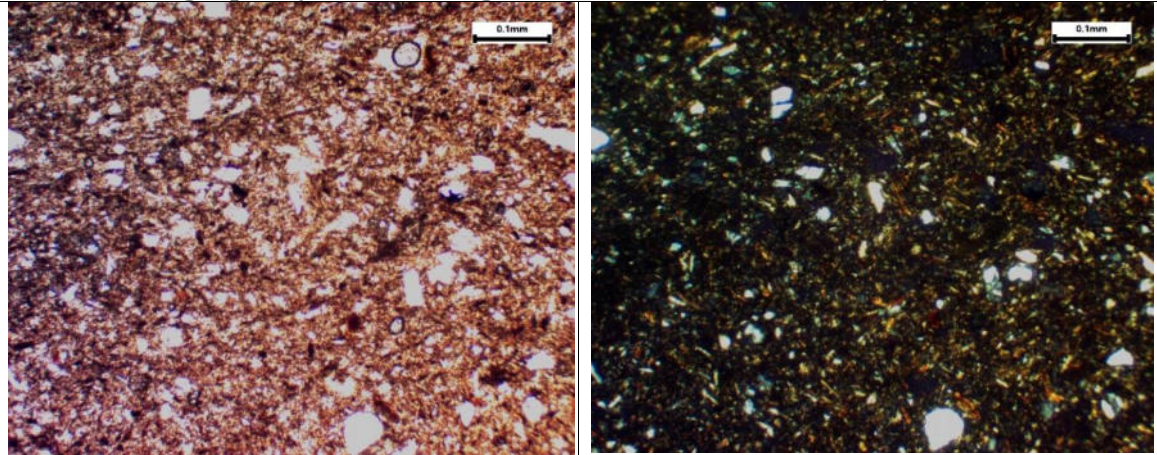
Matrix 65-67%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	brown/ golden grey	FSa-CSa clay pellets, 3-5% of the matrix

Voids 3%

Type and size	Distinct characteristics
one mega vugh, macro/ meso vughs, channels, vesicles	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP154 MFEA Museum Number: K.12003:804 Site: Luohantang	Fabric group: 1A; Fine, Mica-Quartz-Feldspar										
Sherd photo	Fabric photo										
											
		Thin section scan 									
Description											
MACROSCOPIC: Body sherd; reduced core, oxidised margins; streaks of red paint on the inside; max. wall thickness 7.8 mm.											
MICROSCOPIC: Non-plastic inclusions 20%											
<table><tr><td colspan="2">Coarse 0.1%</td><td colspan="2">Fine 99.9%</td></tr><tr><td colspan="2"> - quartz (eq, el; s-ang; FSa-MSa) 99% - granitic rock fragments – combination of quartz, plagioclase feldspar with or without biotite (el, s-ang; MSa) 1% </td><td colspan="2"> - mica 50% - quartz 40% - feldspar 10% </td></tr></table>		Coarse 0.1%		Fine 99.9%		- quartz (eq, el; s-ang; FSa-MSa) 99% - granitic rock fragments – combination of quartz, plagioclase feldspar with or without biotite (el, s-ang; MSa) 1%		- mica 50% - quartz 40% - feldspar 10%			
Coarse 0.1%		Fine 99.9%									
- quartz (eq, el; s-ang; FSa-MSa) 99% - granitic rock fragments – combination of quartz, plagioclase feldspar with or without biotite (el, s-ang; MSa) 1%		- mica 50% - quartz 40% - feldspar 10%									
Matrix 77%											
<table><tr><td>Homo-/heterogeneity</td><td>Sorting</td><td>Optical activity</td><td>Colour in PPL/ in XPL</td><td>Textural features/ comments</td></tr><tr><td>heterogeneous</td><td>well</td><td>active</td><td>greyish brown / dark greyish golden brown</td><td>MSa-FGr clay pellets, 3-5% of the matrix; matrix poorly mixed</td></tr></table>		Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments	heterogeneous	well	active	greyish brown / dark greyish golden brown	MSa-FGr clay pellets, 3-5% of the matrix; matrix poorly mixed
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments							
heterogeneous	well	active	greyish brown / dark greyish golden brown	MSa-FGr clay pellets, 3-5% of the matrix; matrix poorly mixed							

Voids 3%

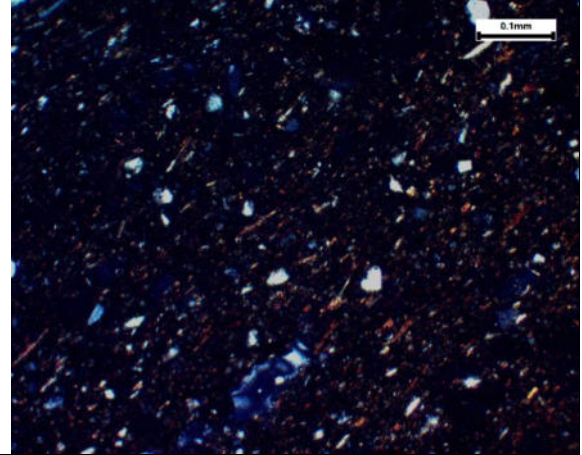
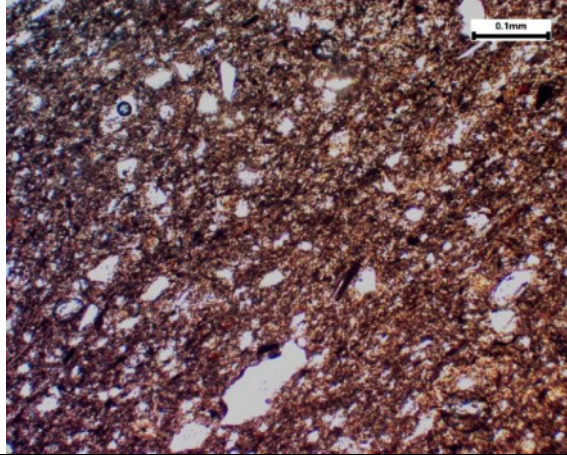
Type and size

macro/ meso vughs, channels

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP155 MFEA Museum Number: K.12003:894 Site: Luohantang	Fabric group: 9; Coarse-Fine-combination: Coarse Quartz-Feldspar, Granodiorite and Sedimentary rock fragments
Sherd photo 	Fabric photo  Thin section scan 
Description MACROSCOPIC: Body sherd; fired in oxidising atmosphere; upper half is polished and painted black, lower half has cross-cord impressions and appliqué; max. wall thickness 7.3 mm.	

MICROSCOPIC:

Non-plastic inclusions 10-15% of the entire sherd

Coarse fabric 10% inclusions

Fine fabric 5% inclusions

Coarse 30%

- plagioclase feldspar (eq; s-rnd; FSa-CSa) 35%
- sedimentary rock fragments – siltstone and sandstone (eq, el; rnd; CSa) 34%
- quartz (eq; s-rnd; MSa-CSa) 25%
- granitic rock fragments – combination of quartz, plagioclase feldspar, biotite (eq; s-rnd; MSa) 6%

Coarse 0%

Fine 100%:

- mica 55%
- quartz 45%

Fine 70%:

- mica 55%
- quartz 45%

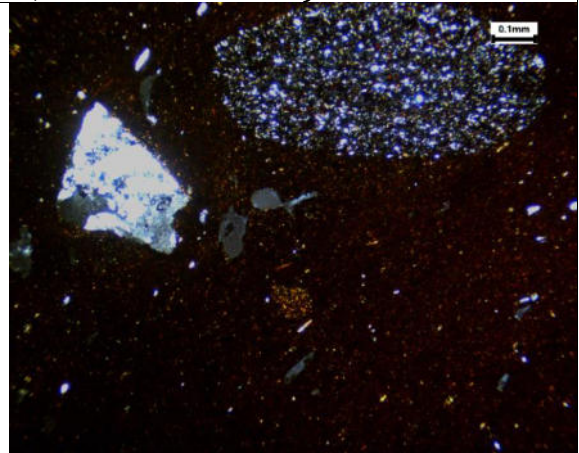
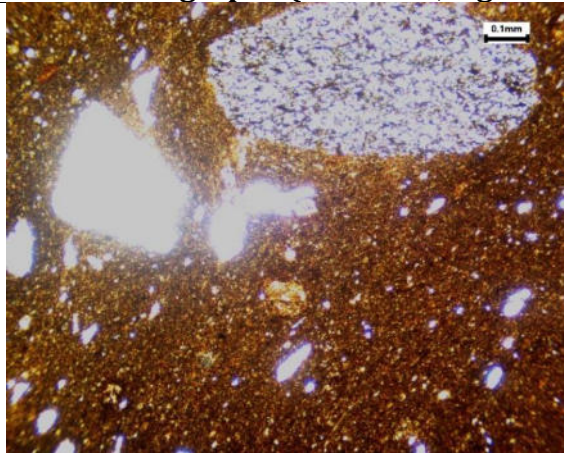
Matrix 75%

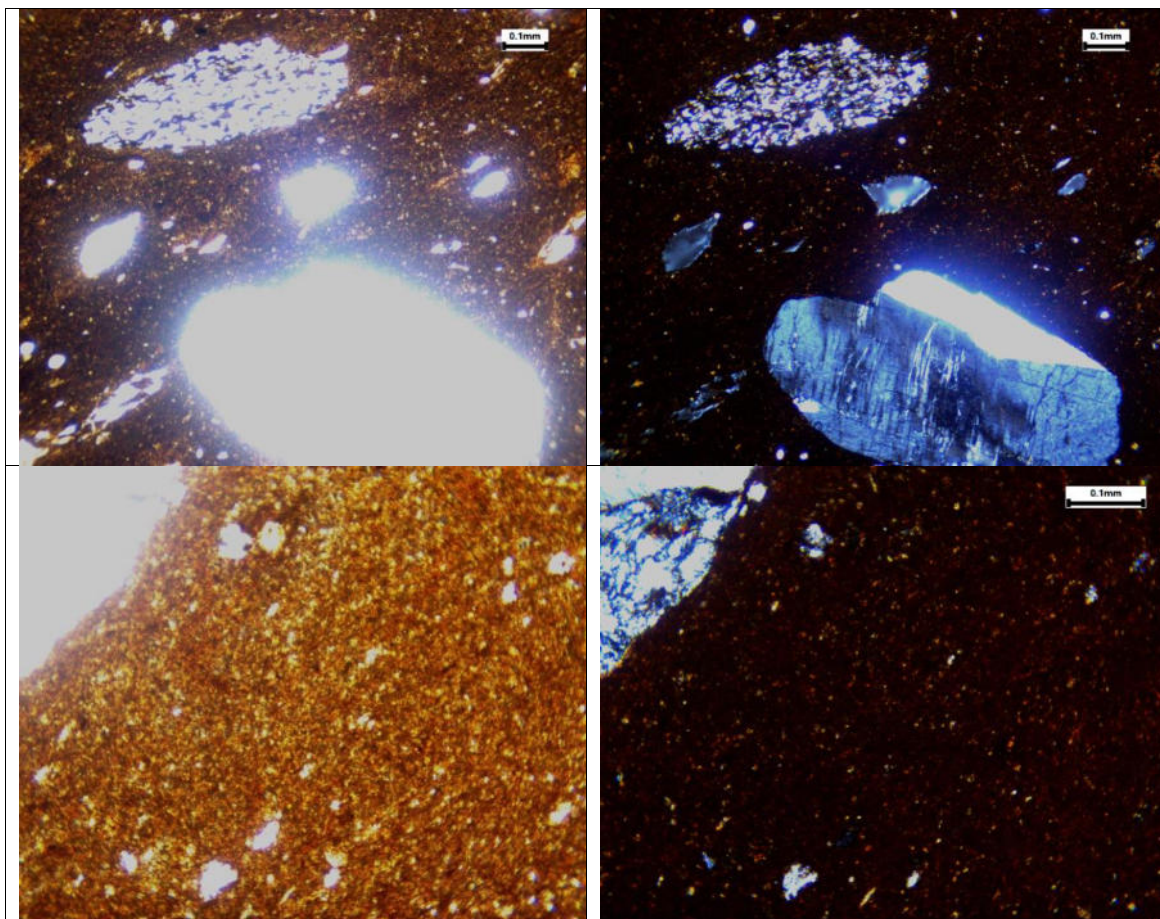
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	coarse fabric: poor fine fabric: well	moderate	brown/ golden brown	fine inclusions are of MSi size and smaller; coarse and fine fabrics have the same groundmass; possibly from the same vessel as CNP187

Voids 10%

Type and size	Distinct characteristics
macro/ meso/ micro channels, vesicles, vughs	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)





Sample code: CNP156 MFEA Museum Number: K.12003.897 Site: Luohantang	Fabric group: 3; Coarse, Feldspar-Quartz-Granodiorite and Sedimentary rock fragments with large clay pellets				
Sherd photo	Fabric photo				
	 Thin section scan 				
Description					
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; upper part is polished and painted black, small area identified with cord impression on the lower part – mixed fabric? – the sherd is mostly the coarse part; max. wall thickness 7 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 20%</th> <th>Fine 80%</th> </tr> </thead> <tbody> <tr> <td> - plagioclase feldspar (eq, el; s-ang – s-rnd; CSa) 20% - granitic/ metamorphosing rock fragments – combination of quartz, plagioclase feldspar, biotite </td> <td> - mica 50% - quartz 50% </td> </tr> </tbody> </table>		Coarse 20%	Fine 80%	- plagioclase feldspar (eq, el; s-ang – s-rnd; CSa) 20% - granitic/ metamorphosing rock fragments – combination of quartz, plagioclase feldspar, biotite	- mica 50% - quartz 50%
Coarse 20%	Fine 80%				
- plagioclase feldspar (eq, el; s-ang – s-rnd; CSa) 20% - granitic/ metamorphosing rock fragments – combination of quartz, plagioclase feldspar, biotite	- mica 50% - quartz 50%				

with/ without hornblende (MSa-CSa) 20%

- quartz (eq; s-rnd; MSa) 15%
- sedimentary rock fragments – siltstone, sandstone (eq; s-ang – rnd; CSa) 15%
- biotite (lamellae, FSa-MSa) 15%
- chert (eq; s-rnd; CSa) 5%
- hornblende (eq; rnd; FSa) 5%
- haematite? (eq; rnd; MSa) 3%
- vitrified fragment with quartz and mica inclusions – grog or volcanic glass? (eq; s-rnd; CSa) 2%

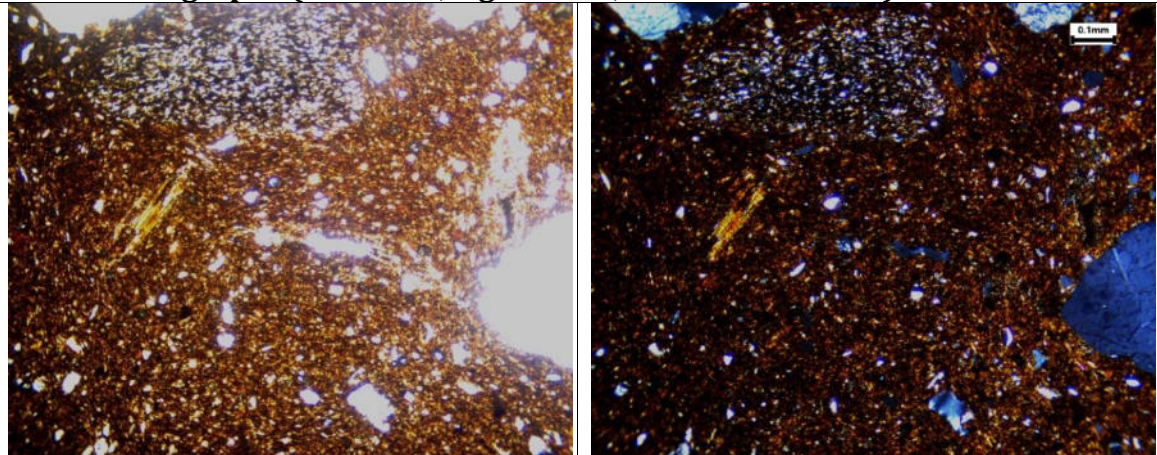
Matrix 70-75%

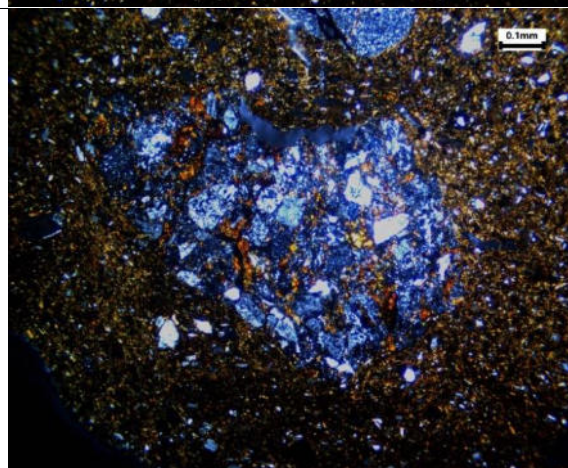
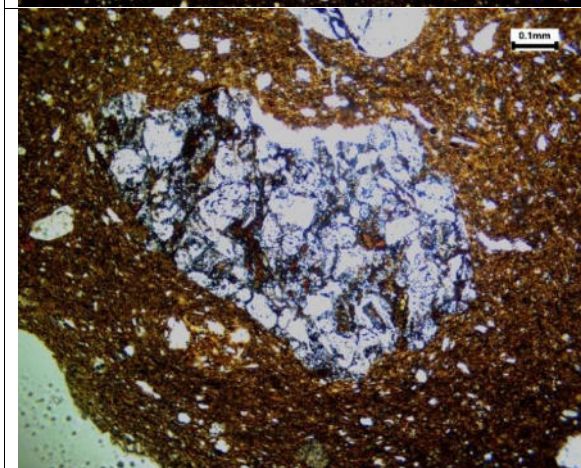
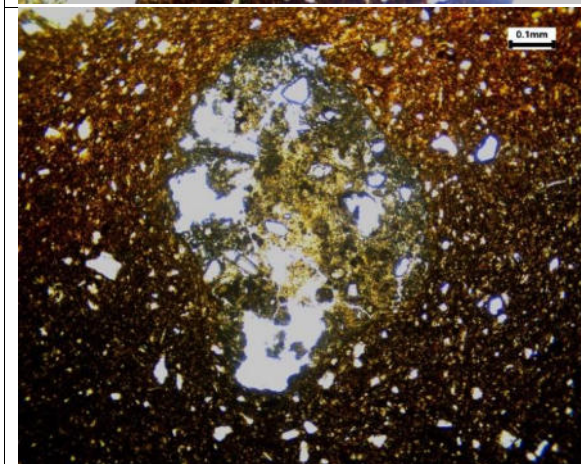
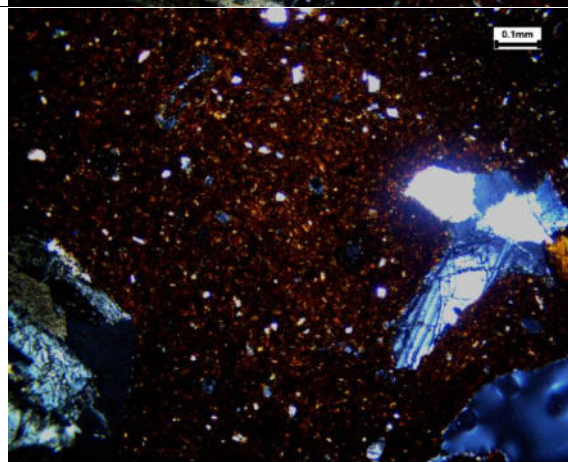
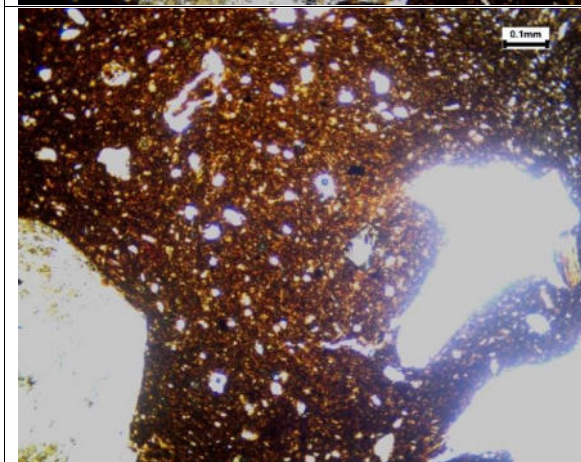
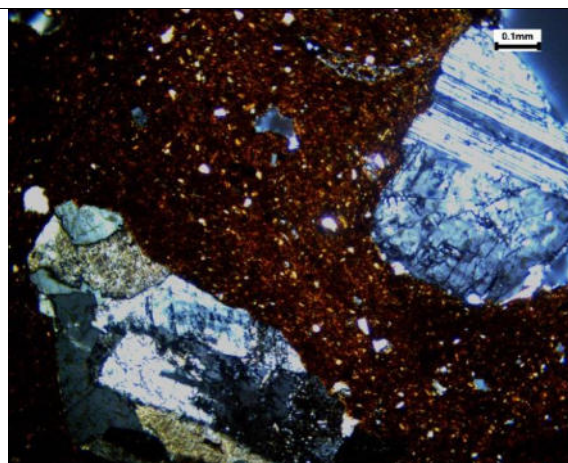
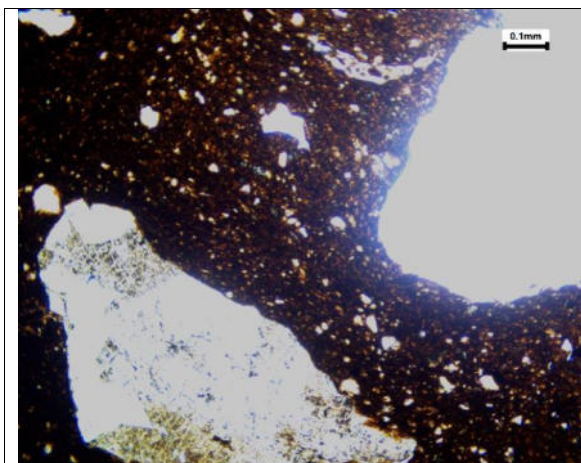
Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	poor	active	reddish brown and grey in the core/ golden brown and grey in the core	possibly a fragment of coarse-fine-combination fabric type

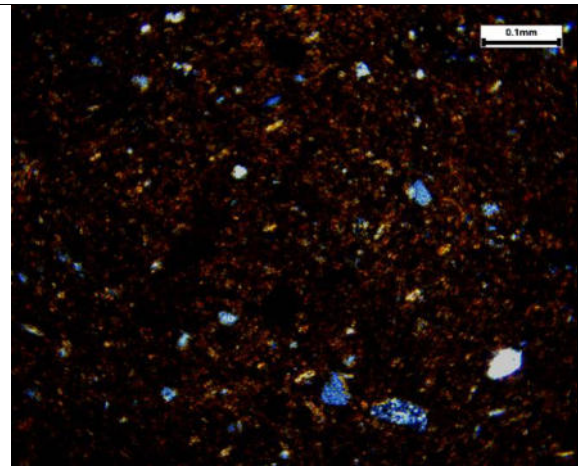
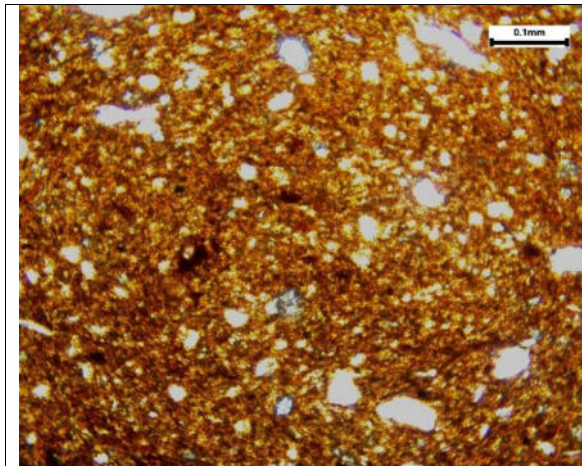
Voids 5-10%

Type and size	Distinct characteristics
mega channels, vughs; macro/ meso vughs, vesicles	mega voids cut the vertical cross section horizontally - result of not joining the coils properly?

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)







Sample code: CNP157 MFEA Museum Number: K.12003.902 Site: Luohantang	Fabric group: 5; Coarse, Quartz-Feldspar vitrified fabric
Sherd photo	Fabric photo
	
Description MACROSCOPIC: Rim and upper body sherd; fired in reducing atmosphere; decorated with diagonal cord impression and appliqué covered with dark paint; max. wall thickness 6 mm.	

MICROSCOPIC:

Non-plastic inclusions 30%

Coarse 20%

- quartz (eq, el; ang – s-rnd; FSa-CSa) 70%
- plagioclase feldspar (eq; s-ang; MSa-CSa) 29.9%
- sandstone grit in black matrix? (eq; rnd; FGr) 0.1%

Fine 80%

- quartz 99%
- feldspar 1%?

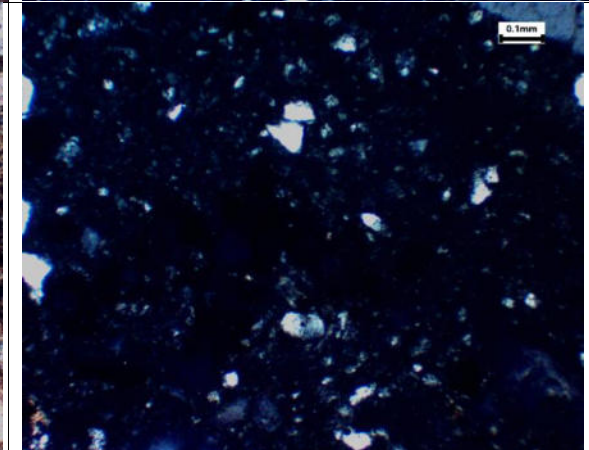
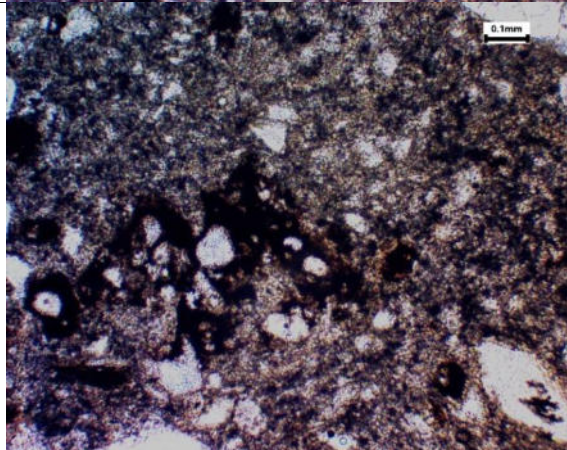
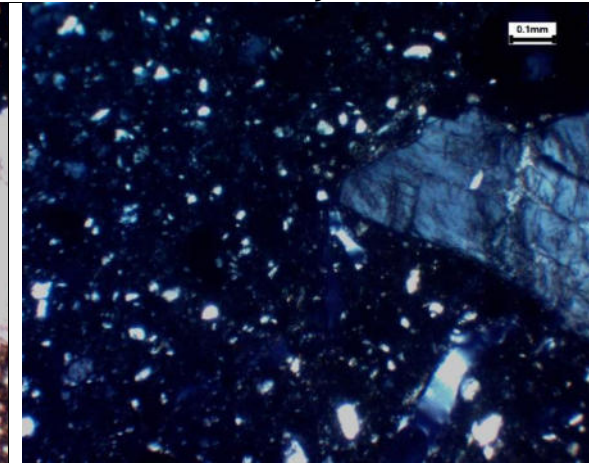
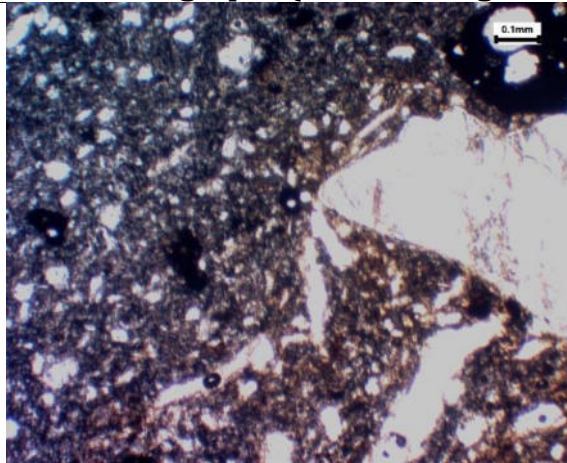
Matrix 60%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous?	poor	moderate or inactive?	grey/ dark grey	unidentified bloated(?) black patches

Voids 10%

Type and size	Distinct characteristics
meso vesicles, few macro vughs, channels, common meso vughs and channels	Vesicles are mostly located in the black patches in the matrix.

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP158 MFEA Museum Number: K.12003.906 Site: Luohantang	Fabric group: 3; Coarse, Feldspar-Quartz-Granodiorite and Sedimentary rock fragments with large clay pellets				
Sherd photo	Fabric photo				
					
		Thin section scan 			
Description					
MACROSCOPIC: Rim and upper body sherd; oxidised inside, reduced outside; decorated with vertical cord impression (body) and appliqué (rim); max. wall thickness 5 mm.					
MICROSCOPIC: Non-plastic inclusions 40-50%					
<table><tr><th>Coarse 30%</th><th>Fine 70%</th></tr><tr><td> - quartz (eq; s-rnd; CSa) 40% - plagioclase feldspar (eq; s-ang; CSa-FGr) 35% - granitic rock fragments – combination of plagioclase feldspar, quartz, biotite/ muscovite </td><td> - mica 50% - quartz 40% - feldspar 10% </td></tr></table>		Coarse 30%	Fine 70%	- quartz (eq; s-rnd; CSa) 40% - plagioclase feldspar (eq; s-ang; CSa-FGr) 35% - granitic rock fragments – combination of plagioclase feldspar, quartz, biotite/ muscovite	- mica 50% - quartz 40% - feldspar 10%
Coarse 30%	Fine 70%				
- quartz (eq; s-rnd; CSa) 40% - plagioclase feldspar (eq; s-ang; CSa-FGr) 35% - granitic rock fragments – combination of plagioclase feldspar, quartz, biotite/ muscovite	- mica 50% - quartz 40% - feldspar 10%				

(eq; s-ang – s-rnd; CSa-FGr) 23.5%

- sandstone (eq; rnd – s-ang; MSa-CSa) 1%
- siltstone (eq; rnd; CSa) 0.5%

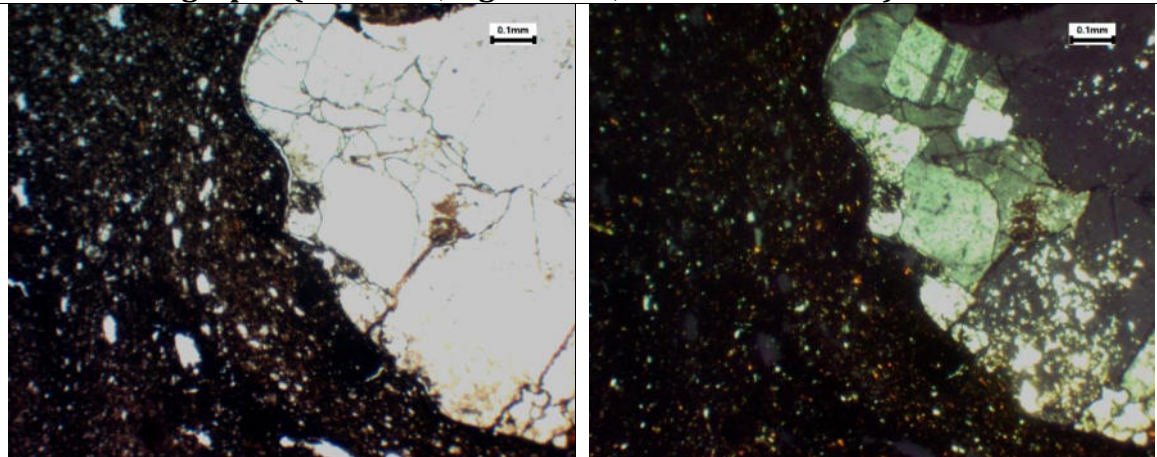
Matrix 40-50%

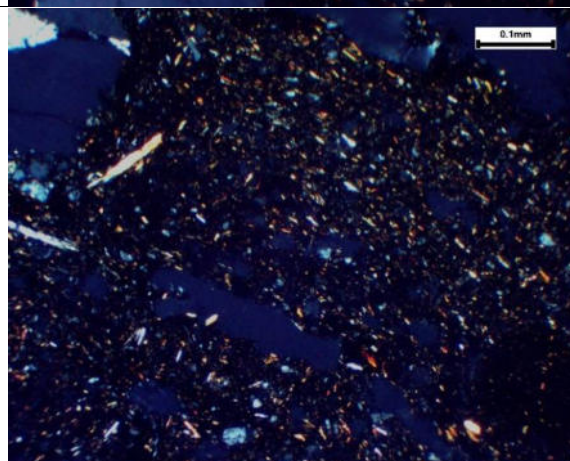
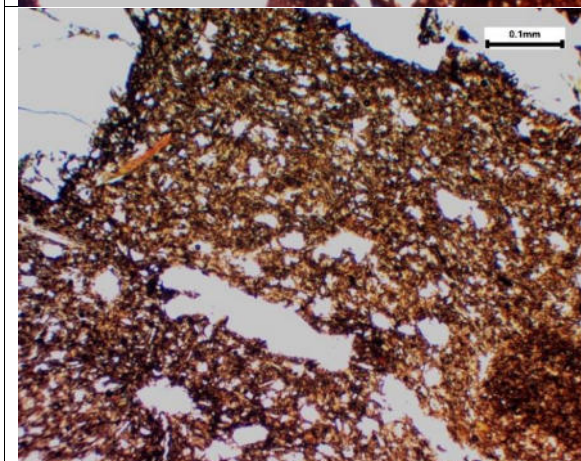
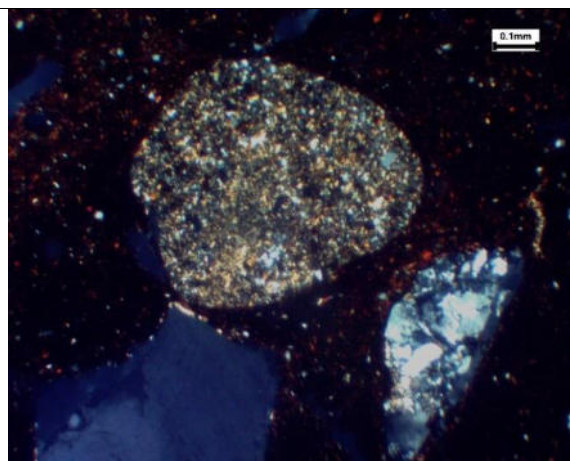
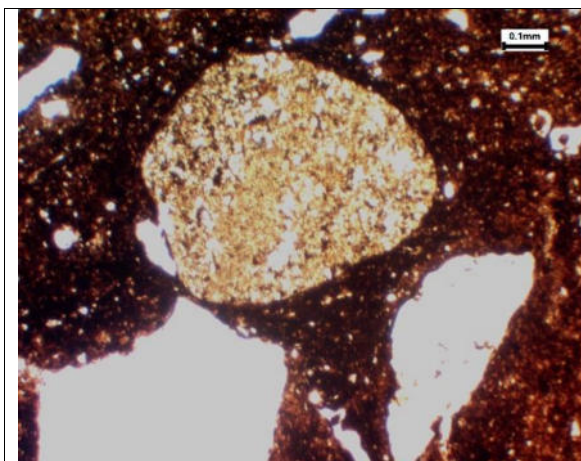
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous?	poor	active	brown to very dark brown/ gold brown to dark brown	MSa clay pellets, 1-3% of the matrix; clay paste was not well mixed? – the matrix shows different shades of dark brown colour; area around voids and coarse inclusion is very dark and appears almost burnt – is this result of firing? Groundmass like 1B fabric with MSi-sized inclusions.

Voids 10%

Type and size	Distinct characteristics
mega macro channels, meso vughs, vesicles	Some voids are filled with secondary calcite.

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)





Sample code: CNP159 MFEA Museum Number: K.12003.908 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets						
Sherd photo	Fabric photo						
							
	Thin section scan 						
Description MACROSCOPIC: Neck sherd; fired in oxidising atmosphere; plain or slipped(?); max. wall thickness 13 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 30%</th> <th>Fine 70%</th> </tr> </thead> <tbody> <tr> <td> - quartz (eq, el; s-rnd; FSa-CSa) 40% </td> <td> - quartz 60% </td> </tr> <tr> <td> - plagioclase and microcline feldspar (eq; ang – s- </td> <td> - mica 35% </td> </tr> </tbody> </table>		Coarse 30%	Fine 70%	quartz (eq, el; s-rnd; FSa-CSa) 40%	quartz 60%	plagioclase and microcline feldspar (eq; ang – s-	mica 35%
Coarse 30%	Fine 70%						
quartz (eq, el; s-rnd; FSa-CSa) 40%	quartz 60%						
plagioclase and microcline feldspar (eq; ang – s-	mica 35%						

ang; FSa-CSa) 35%

• feldspar 5%

- granitic rock fragments – combination of quartz, plagioclase feldspar, biotite and/ or muscovite (eq; s-rnd; CSa) 15%
- biotite (lamellae; CSa-FGr) 10%

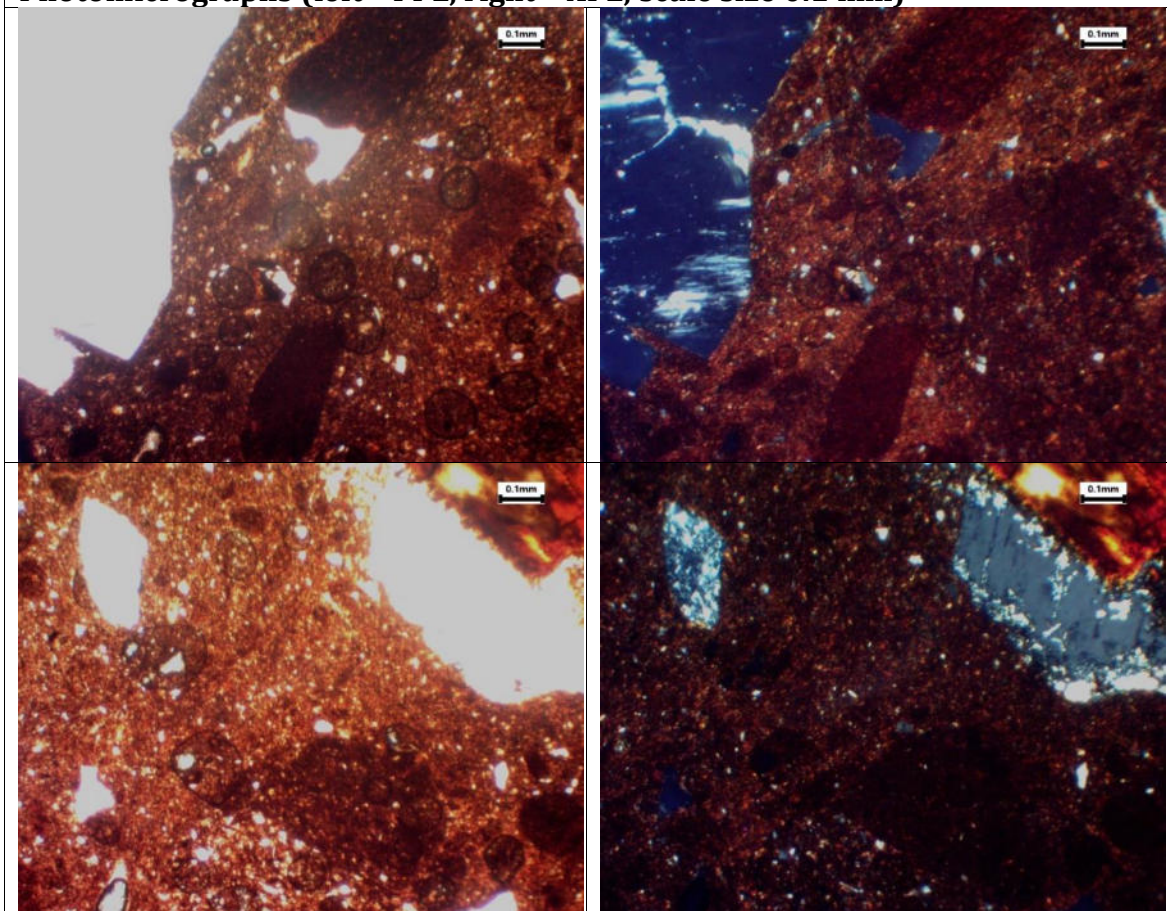
Matrix 77%

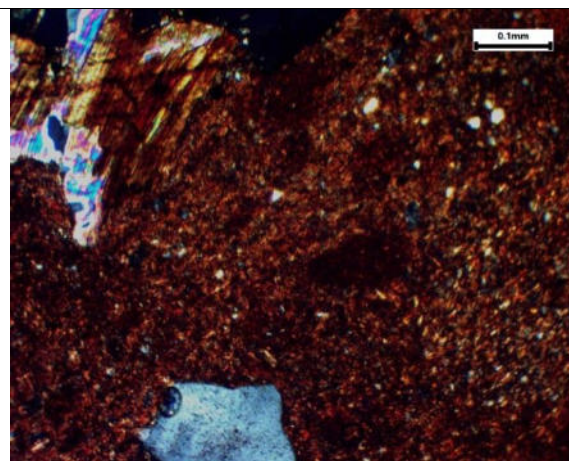
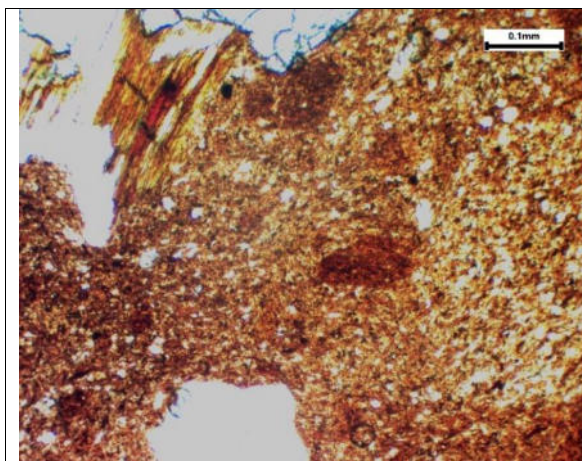
Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	brown/ golden brown	FSa-CSa clay pellets, >10% of the matrix; low porosity despite coarseness; groundmass like 1B medium silt-sized fabric

Voids 3%

Type and size	Distinct characteristics
macro/ meso vughs, vesicles, rare channels	none

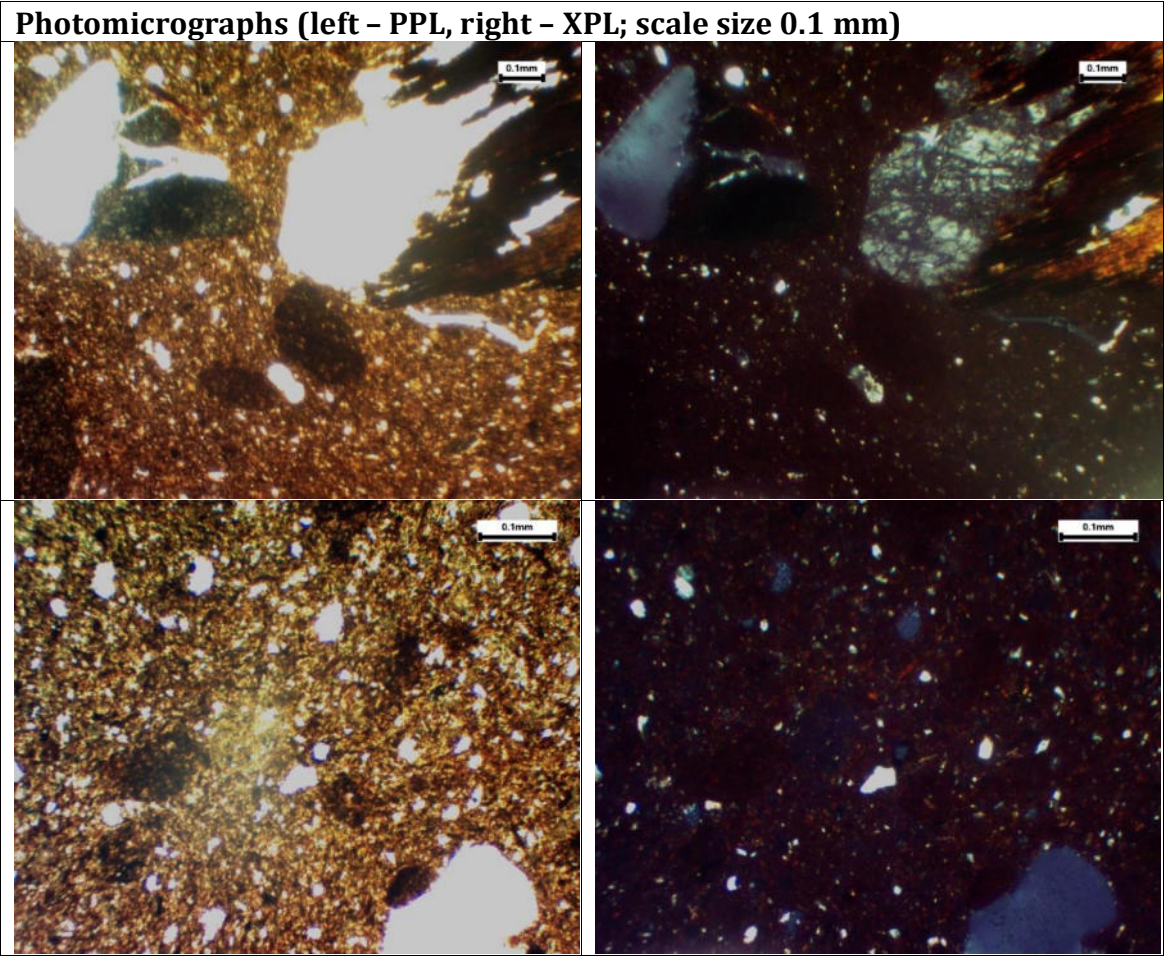
Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)





Sample code: CNP160 MFEA Museum Number: K.12003.950 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Rim and upper body sherd; oxidised, except for the thin exterior margin which is black; decorated with cross-cord impression and appliqué; max. wall thickness 9 mm. MICROSCOPIC: Non-plastic inclusions 15% <table border="1"> <thead> <tr> <th>Coarse 10-20%</th><th>Fine 80-90%</th></tr> </thead> <tbody> <tr> <td> - granitic rock fragments – combination of quartz, plagioclase feldspar, biotite and/ or muscovite (eq; </td><td> - quartz 60% - mica 30% </td></tr> </tbody> </table>		Coarse 10-20%	Fine 80-90%	granitic rock fragments – combination of quartz, plagioclase feldspar, biotite and/ or muscovite (eq;	- quartz 60% - mica 30%
Coarse 10-20%	Fine 80-90%				
granitic rock fragments – combination of quartz, plagioclase feldspar, biotite and/ or muscovite (eq;	- quartz 60% - mica 30%				

ang; CSa-FGr) 35% - biotite (lamellae, CSa) 30% - quartz (eq ang MSa-CSa) 25% - plagioclase feldspar (eq; s-ang; CSa) 10% feldspar 10%				
Matrix 75-80%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	moderate	brown/ dark brown	MSa-CSa clay pellets, >10% of the matrix; groundmass similar to 1B fine fabric
Voids 5-10%				
Type and size				Distinct characteristics
mega/ macro vughs, channels; meso vesicles				none



Sample code: CNP161 MFEA Museum Number: K.12003:977 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets
Sherd photo 	Fabric photo  Thin section scan 
Description MACROSCOPIC: Rim sherd; fired in reducing atmosphere; decorated with diagonal cord impression; max. wall thickness 8.8 mm MICROSCOPIC: Non-plastic inclusions 20% Coarse 15% - quartz (eq, el; ang – s-rnd; FSa-CSa) 35% - plagioclase (eq, el; ang – s-ang FSa) 35% - granitic fragments – combination of quartz and plagioclase feldspar with rare biotite (eq, el; ang; Fine 85% - quartz 80% - feldspar 20%	

MSa-FGr) 25%

- biotite, turned black due to the high firing temperature? (lamellae; MSa-CSa) 5%

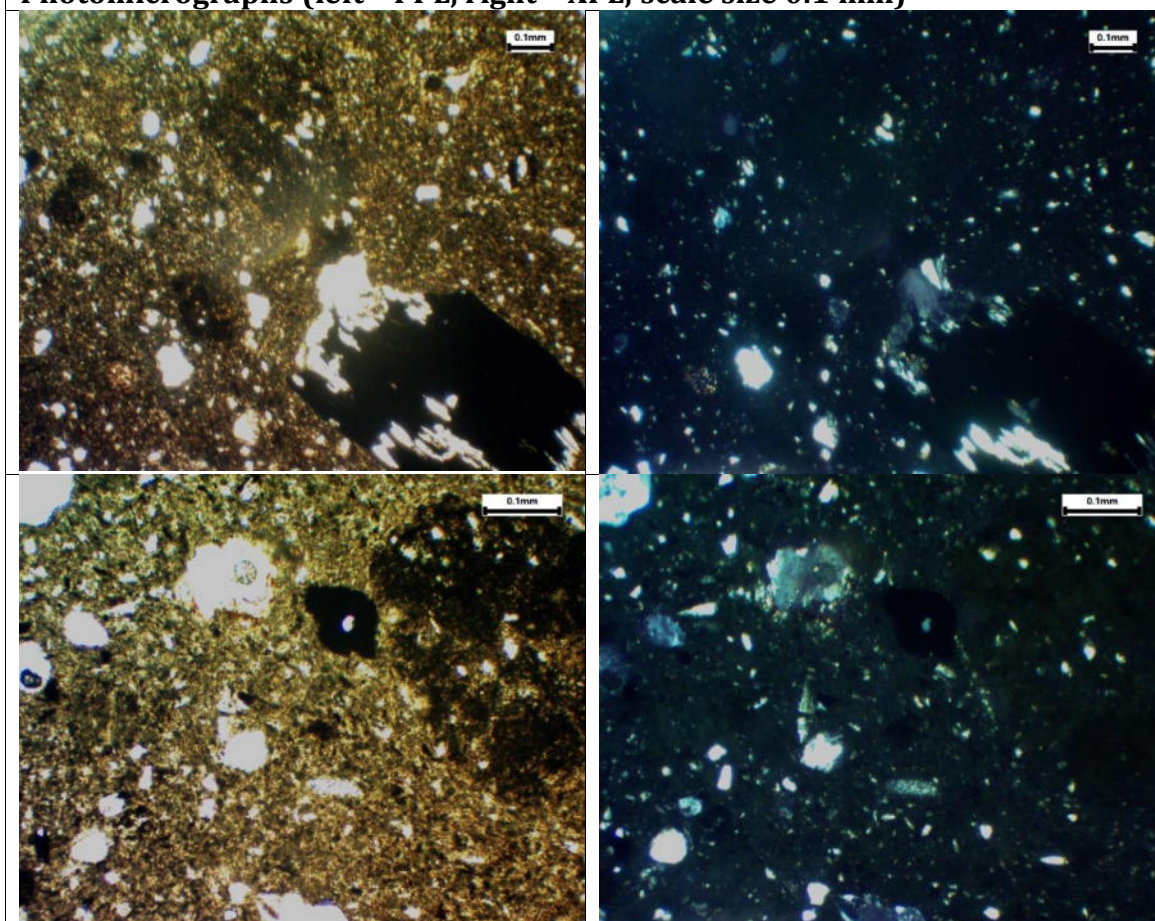
Matrix 75%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
fairly homogeneous	poor	inactive	grey to dark grey/ almost black	MSa-CSa clay pellets, 1-3% of the matrix

Voids 5%

Type and size	Distinct characteristics
mega vughs and channels, macro/ meso vughs, channels, vesicles	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP162 MFEA Museum Number: K.12003:985 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets				
Sherd photo	Fabric photo				
	 Thin section scan 				
Description MACROSCOPIC: Rim sherd; fired in oxidising atmosphere; decorated with diagonal cord impression; max. wall thickness 9.2 mm, rim 12.2 mm. MICROSCOPIC: Non-plastic inclusions 10-15% <table border="1"> <thead> <tr> <th>Coarse 40%</th> <th>Fine 60%</th> </tr> </thead> <tbody> <tr> <td> - plagioclase and microcline feldspar (eq; ang; MSa-FGr) 39% - biotite (lamellae; FSa-CSa) 25% - quartz (eq, el; ang-s-ang; MSa-CSa) 20% - granitic rock fragments – combination of microcline/ plagioclase/ microcline feldspar, quartz, biotite, muscovite (eq, eq; ang – s-ang; CSa) </td> <td> - quartz 80% - mica 10% - feldspar 10% </td> </tr> </tbody> </table>		Coarse 40%	Fine 60%	- plagioclase and microcline feldspar (eq; ang; MSa-FGr) 39% - biotite (lamellae; FSa-CSa) 25% - quartz (eq, el; ang-s-ang; MSa-CSa) 20% - granitic rock fragments – combination of microcline/ plagioclase/ microcline feldspar, quartz, biotite, muscovite (eq, eq; ang – s-ang; CSa)	- quartz 80% - mica 10% - feldspar 10%
Coarse 40%	Fine 60%				
- plagioclase and microcline feldspar (eq; ang; MSa-FGr) 39% - biotite (lamellae; FSa-CSa) 25% - quartz (eq, el; ang-s-ang; MSa-CSa) 20% - granitic rock fragments – combination of microcline/ plagioclase/ microcline feldspar, quartz, biotite, muscovite (eq, eq; ang – s-ang; CSa)	- quartz 80% - mica 10% - feldspar 10%				

15%

- muscovite (lamellae; FSa) 1%

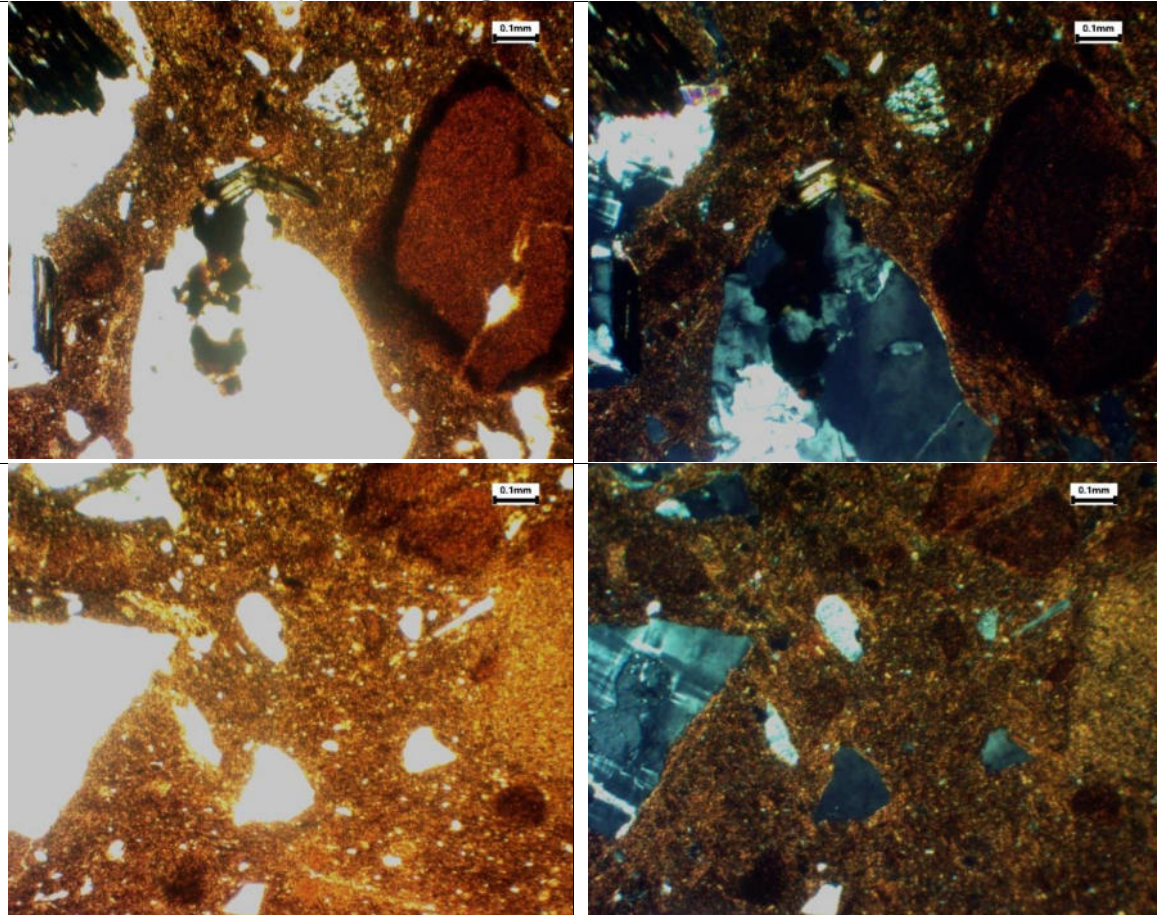
Matrix 80-87%

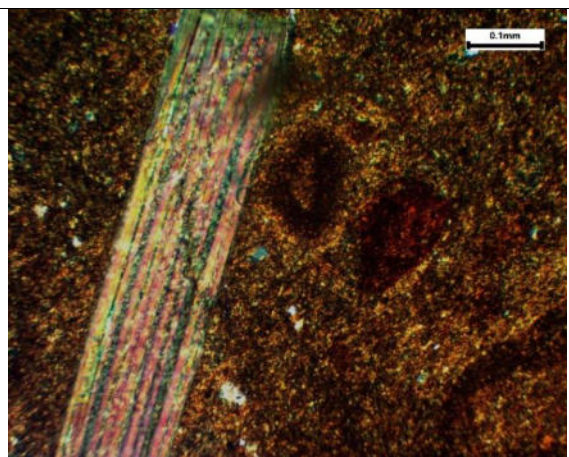
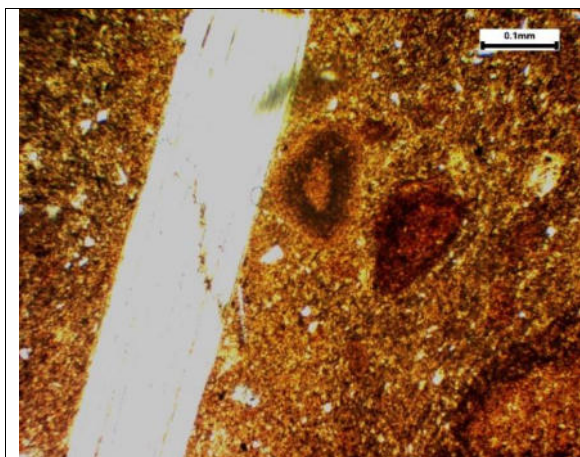
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	golden brown to dark brown/ yellow golden brown to dark brown	MSa-CSa clay pellets, >10% of the matrix; groundmass similar to 1B fine fabric

Voids 3-5%

Type and size	Distinct characteristics
macro/ meso vughs; mega, meso planar voids	none

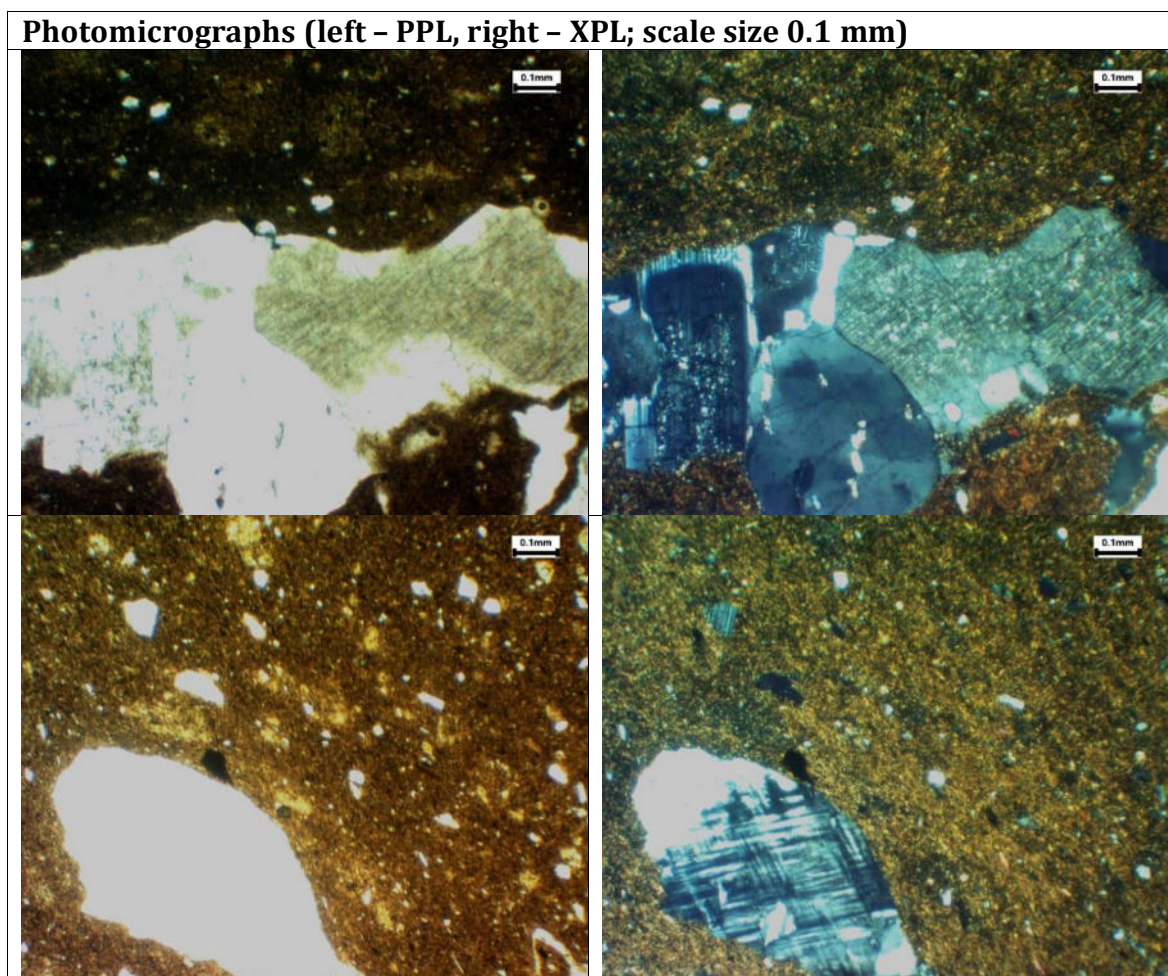
Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)

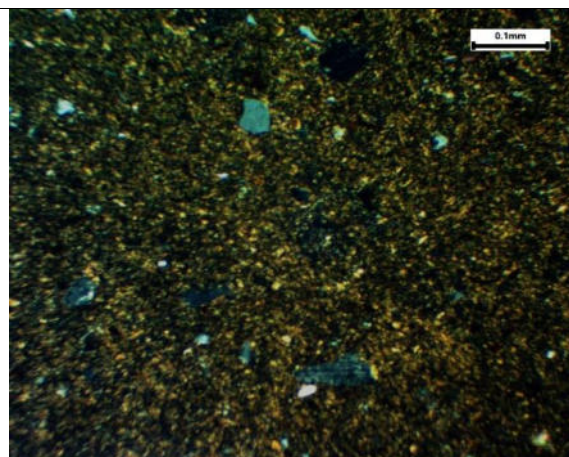
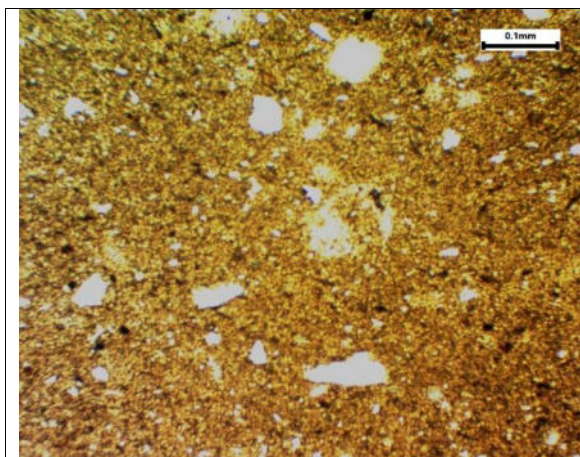




Sample code: CNP163 MFEA Museum Number: K.12003:996 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets
Sherd photo 	Fabric photo  Thin section scan 
Description MACROSCOPIC: Rim sherd; unclear, fabric has a dull yellow greenish colour; decorated with diagonal cord impression; max. wall thickness 9.6 mm. MICROSCOPIC: Non-plastic inclusions 10% Coarse 30% Fine 70% - plagioclase/ microcline feldspar (eq; s-ang; FSa-MSa) 60% - quartz (eq, el; ang – s-rnd; FSa-MSa) 35% - granitic rock fragments – combination of plagioclase/ microcline feldspar, quartz (eq, el; s-rnd; MSa-FGr) 5% - quartz 65% - mica 30% - feldspar 5%	

Matrix 85%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
fairly homogeneous	poor	active	brown/ golden brown	FSa-MSa clay pellets, 1-3% of the matrix; groundmass similar to 1B fabric
Voids 5%				
Type and size			Distinct characteristics	
two macro vughs, meso vesicles, vughs			none	





Sample code: CNP164 MFEA Museum Number: K.12003:1002 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC: Rim sherd; fired in reducing atmosphere; decorated with diagonal cord impression and appliqué; max. wall thickness 9.3 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 40%</th> <th>Fine 60%</th> </tr> </thead> <tbody> <tr> <td> - plagioclase/microcline feldspar (eq; ang – s-ang; CSa) 30% - quartz (eq; ang; CSa) 30% - biotite (lamellae; MSa-CSa) 20% - granitic rock fragments – combination of plagioclase/ microcline feldspar, quartz, biotite/ muscovite (eq; ang; CSa) 10% </td> <td> - quartz 60% - mica 40% </td> </tr> </tbody> </table>		Coarse 40%	Fine 60%	- plagioclase/microcline feldspar (eq; ang – s-ang; CSa) 30% - quartz (eq; ang; CSa) 30% - biotite (lamellae; MSa-CSa) 20% - granitic rock fragments – combination of plagioclase/ microcline feldspar, quartz, biotite/ muscovite (eq; ang; CSa) 10%	- quartz 60% - mica 40%
Coarse 40%	Fine 60%				
- plagioclase/microcline feldspar (eq; ang – s-ang; CSa) 30% - quartz (eq; ang; CSa) 30% - biotite (lamellae; MSa-CSa) 20% - granitic rock fragments – combination of plagioclase/ microcline feldspar, quartz, biotite/ muscovite (eq; ang; CSa) 10%	- quartz 60% - mica 40%				

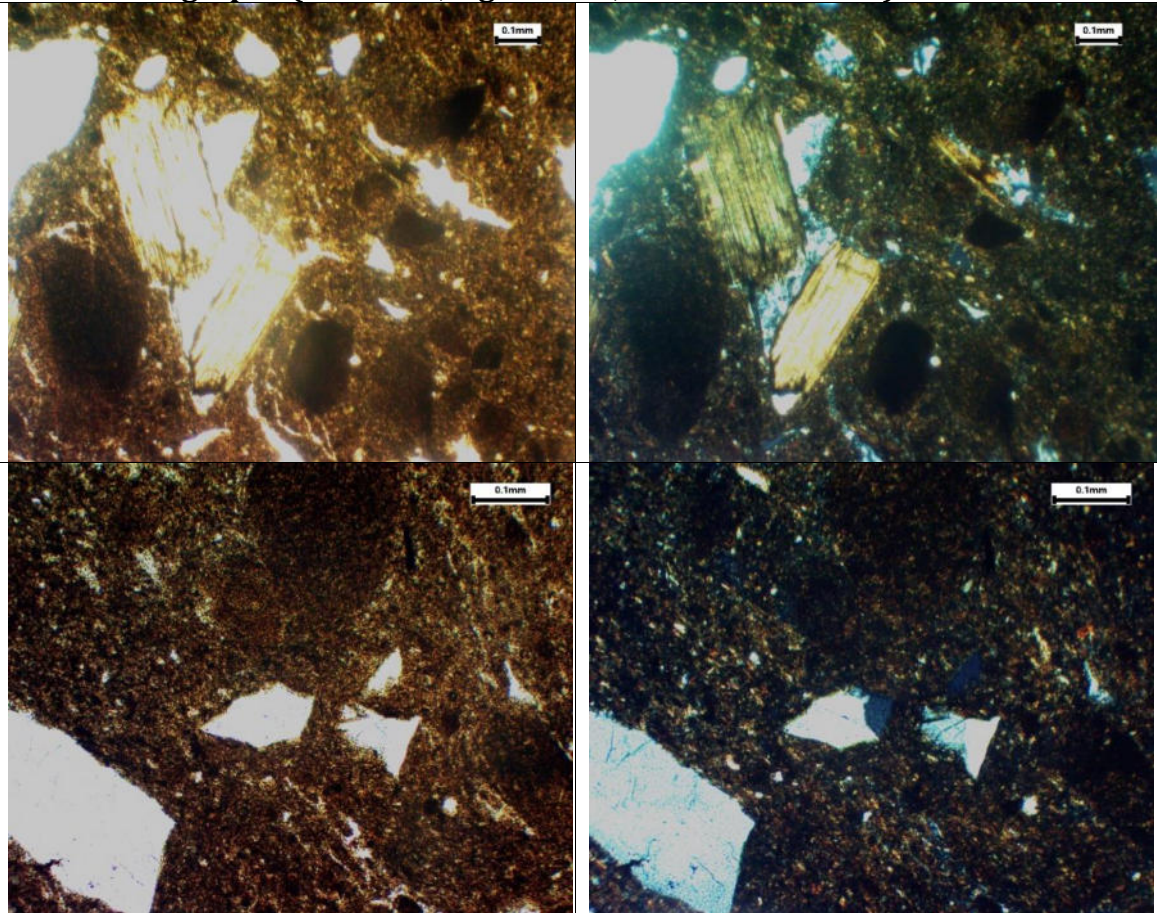
Matrix 70%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	brown/ golden brown	MSa-CSa clay pellets, >10% of the matrix; groundmass similar to 1B fine fabric

Voids 10%

Type and size	Distinct characteristics
mega/ macro/ meso vughs and channels	most voids stop or start at coarse inclusions

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP165 MFEA Museum Number: K.12003:1003 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets
Sherd photo	Fabric photo
	
	Thin section scan 
Description MACROSCOPIC: Neck sherd; reduced core, oxidised margins; plain; max. wall thickness 17 mm. MICROSCOPIC: Non-plastic inclusions 10% Coarse 40% Fine 60% - quartz (eq; ang; MSa) 40% - biotite (lamellae; MSa-FGr) 30% - plagioclase/ microcline feldspar (eq; ang – s-ang; MSa-CSa) 20% - quartz 90% - mica 10%	

- granitic rock fragments – combination of plagioclase feldspar, quartz, biotite (eq, el; ang; CSa-FGr) 10%

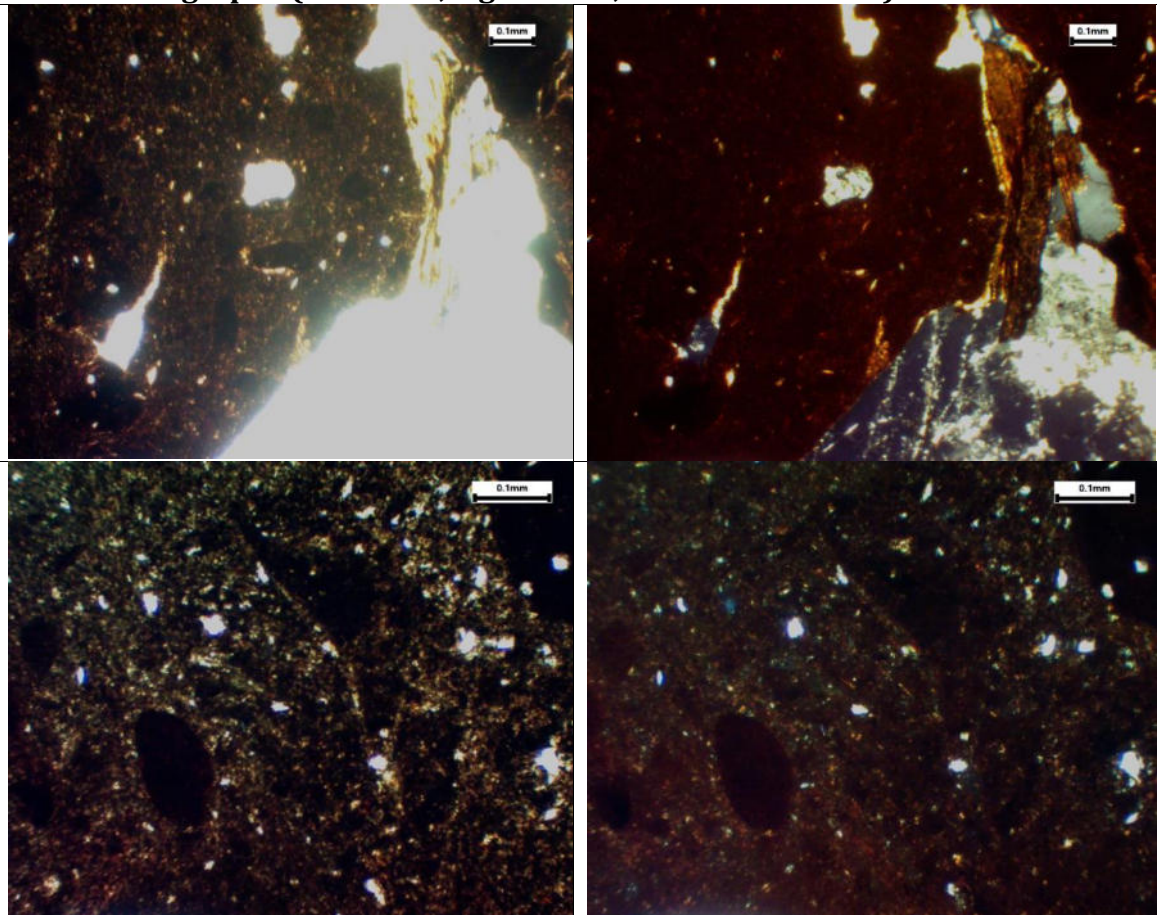
Matrix 85%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	moderate	grey brown/ dark red brown	MSa-CSa clay pellets, >10% of the matrix; very low inclusion amount, fine fraction is of MSi size and smaller; similar to CNP167

Voids 5%

Type and size	Distinct characteristics
one mega channel in the middle - void in the neck/shoulder joint; meso vughs, planar voids	majority of the voids are filled with secondary calcite

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP166 MFEA Museum Number: K.12003:1004 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets												
Sherd photo	Fabric photo												
													
	Thin section scan 												
Description MACROSCOPIC: Rim sherd; fired in oxidising(?) atmosphere, buff light brown colour; decorated with diagonal cord impression; max. wall thickness 9.5 mm. MICROSCOPIC: Non-plastic inclusions 20-30% <table border="1"> <thead> <tr> <th>Coarse 30-40%</th><th>Fine 60-70%</th></tr> </thead> <tbody> <tr> <td> - plagioclase feldspar (eq; ang; MSa-FGr) 40% </td><td> - quartz 49% </td></tr> <tr> <td> - quartz (eq; ang; FSa-CSa) 30% </td><td> - mica 45% </td></tr> <tr> <td> - granitic rock fragments – combination of quartz, plagioclase feldspar with rare biotite (eq; ang; CSa-FGr) 15% </td><td> - feldspar 5% </td></tr> <tr> <td> - biotite (lamellae; FSa-MSa) 14.5% </td><td> - calcite 1% </td></tr> <tr> <td> - haematite? (eq; s-rnd; CSa) 0.5% </td><td></td></tr> </tbody> </table>		Coarse 30-40%	Fine 60-70%	plagioclase feldspar (eq; ang; MSa-FGr) 40%	quartz 49%	quartz (eq; ang; FSa-CSa) 30%	mica 45%	granitic rock fragments – combination of quartz, plagioclase feldspar with rare biotite (eq; ang; CSa-FGr) 15%	feldspar 5%	biotite (lamellae; FSa-MSa) 14.5%	calcite 1%	haematite? (eq; s-rnd; CSa) 0.5%	
Coarse 30-40%	Fine 60-70%												
plagioclase feldspar (eq; ang; MSa-FGr) 40%	quartz 49%												
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biotite (lamellae; FSa-MSa) 14.5%	calcite 1%												
haematite? (eq; s-rnd; CSa) 0.5%													

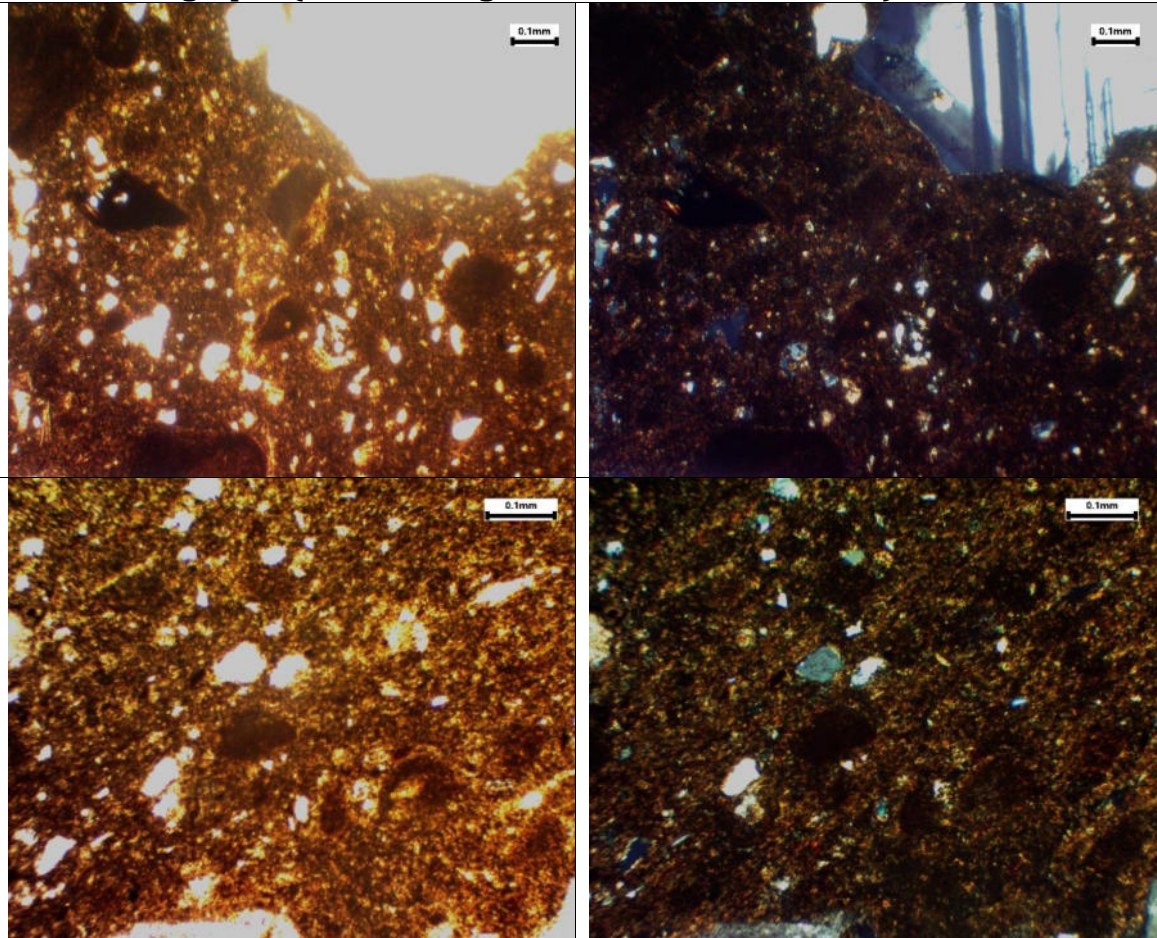
Matrix 65-77%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	brown to dark brown/ golden brown	MSa-CSa clay pellets, >10% of the matrix

Voids 3-5%

Type and size	Distinct characteristics
one mega vugh; macro, meso vughs, channels, vesicles	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP167 MFEA Museum Number: K.12003:1007 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets				
Sherd photo	Fabric photo				
					
Description					
MACROSCOPIC: Rim and upper body sherd; fired in oxidising atmosphere; plain; max. wall thickness 5.5 mm. MICROSCOPIC: Non-plastic inclusions 10-15% <table border="1"> <thead> <tr> <th>Coarse 10%</th><th>Fine 90%</th></tr> </thead> <tbody> <tr> <td> - granitic rock fragments – combination of quartz, plagioclase/ microcline feldspar, biotite and/or muscovite (eq; ang – s-ang; CSa) 40% - plagioclase feldspar (eq; s-ang; CSa) 35% </td><td> - quartz 60% - mica 40% </td></tr> </tbody> </table>		Coarse 10%	Fine 90%	- granitic rock fragments – combination of quartz, plagioclase/ microcline feldspar, biotite and/or muscovite (eq; ang – s-ang; CSa) 40% - plagioclase feldspar (eq; s-ang; CSa) 35%	- quartz 60% - mica 40%
Coarse 10%	Fine 90%				
- granitic rock fragments – combination of quartz, plagioclase/ microcline feldspar, biotite and/or muscovite (eq; ang – s-ang; CSa) 40% - plagioclase feldspar (eq; s-ang; CSa) 35%	- quartz 60% - mica 40%				

- quartz (eq; s-rnd; FSa) 15%
- biotite (lamellae; CSa) 10%

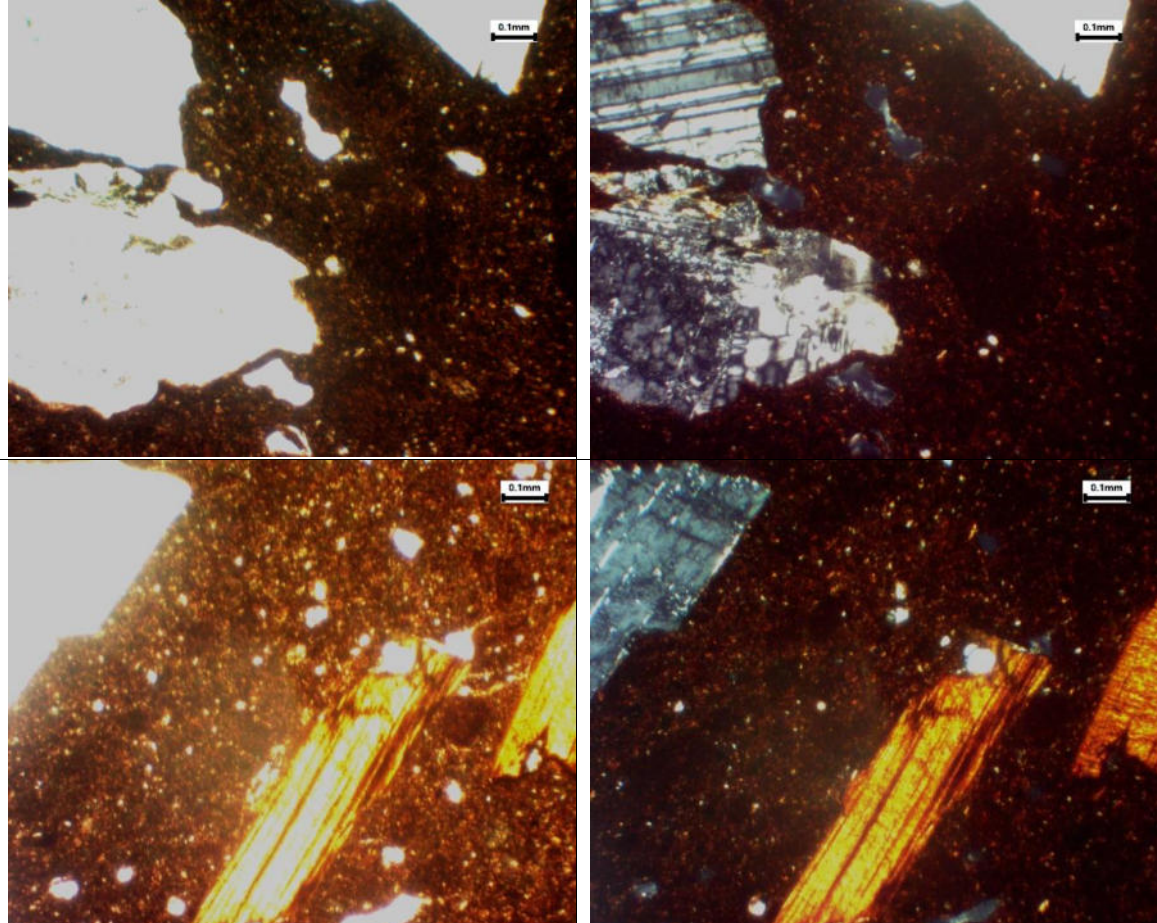
Matrix 80-87%

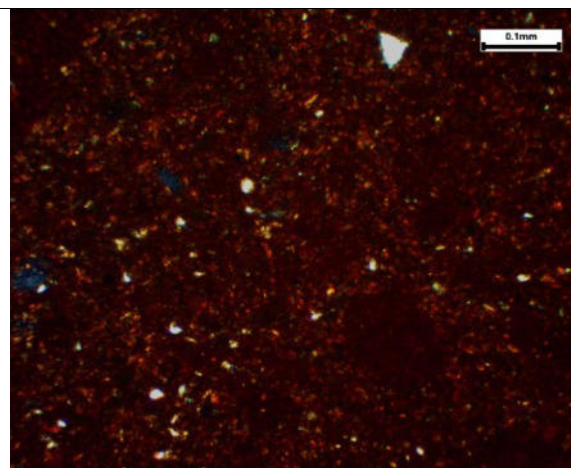
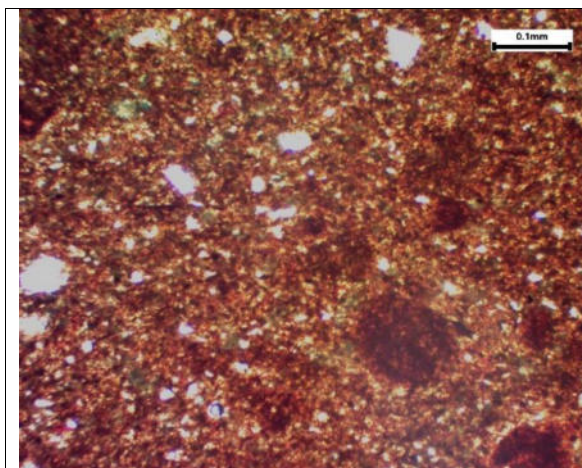
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	dark brown/ golden red brown	FSa-CSa clay pellets, 5-10% of the matrix; groundmass similar to 1B fine fabric; similar to CNP165

Voids 3-5%

Type and size	Distinct characteristics
few mega/macro vughs, channels; meso vughs	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)





Sample code: CNP168 MFEA Museum Number: K.12003:1009 Site: Luohantang	Fabric group: 1A; Fine, Mica-Quartz-Feldspar				
Sherd photo	Fabric photo				
	 Thin section scan				
Description MACROSCOPIC: Rim sherd; reduced? overfired, bloated surface; plain; max. wall thickness 9.2 mm. MICROSCOPIC: Non-plastic inclusions 20-30% <table border="1"> <thead> <tr> <th>Coarse 0.1%</th> <th>Fine 99.9%</th> </tr> </thead> <tbody> <tr> <td> - quartz (eq, el; ang – s-ang, FSa-CSa) 100% </td> <td> - quartz 99% - feldspar 1% </td> </tr> </tbody> </table>		Coarse 0.1%	Fine 99.9%	quartz (eq, el; ang – s-ang, FSa-CSa) 100%	- quartz 99% - feldspar 1%
Coarse 0.1%	Fine 99.9%				
quartz (eq, el; ang – s-ang, FSa-CSa) 100%	- quartz 99% - feldspar 1%				

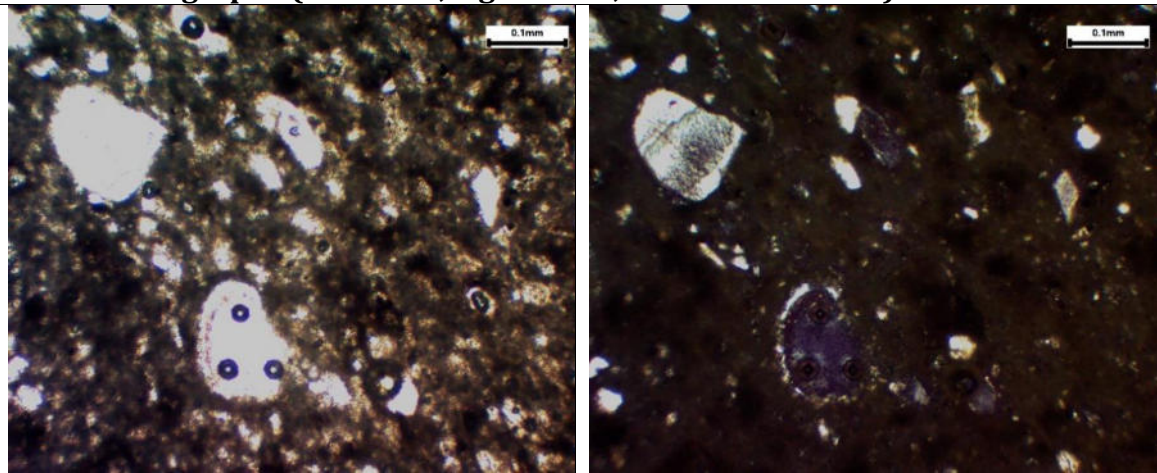
Matrix 55-60%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	inactive	grey to dark grey / dark grey to black	vitified bloated fabric – difficult to identify inclusions

Voids 10-15%

Type and size	Distinct characteristics
one mega vugh, macro/ meso vughs, vesicles, channels	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP169 MFEA Museum Number: K.12003:1010 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets								
Sherd photo 	Fabric photo  Thin section scan 								
Description MACROSCOPIC: Rim sherd; oxidised core, reduced margins; decorated with cross-cord impressions; max. wall thickness 9.6 mm, rim 7.5 mm. MICROSCOPIC: Non-plastic inclusions 15-20% <table border="1"> <thead> <tr> <th>Coarse 5-10%</th><th>Fine 90-95%</th></tr> </thead> <tbody> <tr> <td> • ortho-(?)/ plagioclase feldspar (eq; ang – s-rnd; MSa) 54% </td><td> • mica 55% </td></tr> <tr> <td> • quartz (eq; ang; FSa-FGr) 30% </td><td> • quartz 40% </td></tr> <tr> <td> • granitic rock fragments – combination of </td><td> • feldspar 5% </td></tr> </tbody> </table>		Coarse 5-10%	Fine 90-95%	• ortho-(?)/ plagioclase feldspar (eq; ang – s-rnd; MSa) 54%	• mica 55%	• quartz (eq; ang; FSa-FGr) 30%	• quartz 40%	• granitic rock fragments – combination of	• feldspar 5%
Coarse 5-10%	Fine 90-95%								
• ortho-(?)/ plagioclase feldspar (eq; ang – s-rnd; MSa) 54%	• mica 55%								
• quartz (eq; ang; FSa-FGr) 30%	• quartz 40%								
• granitic rock fragments – combination of	• feldspar 5%								

plagioclase feldspar and quartz (eq; ang; CSa-FGr)
10%

- biotite (lamellae; CSa) 5%
- siltstone (eq; s-rnd; CSa) 1%

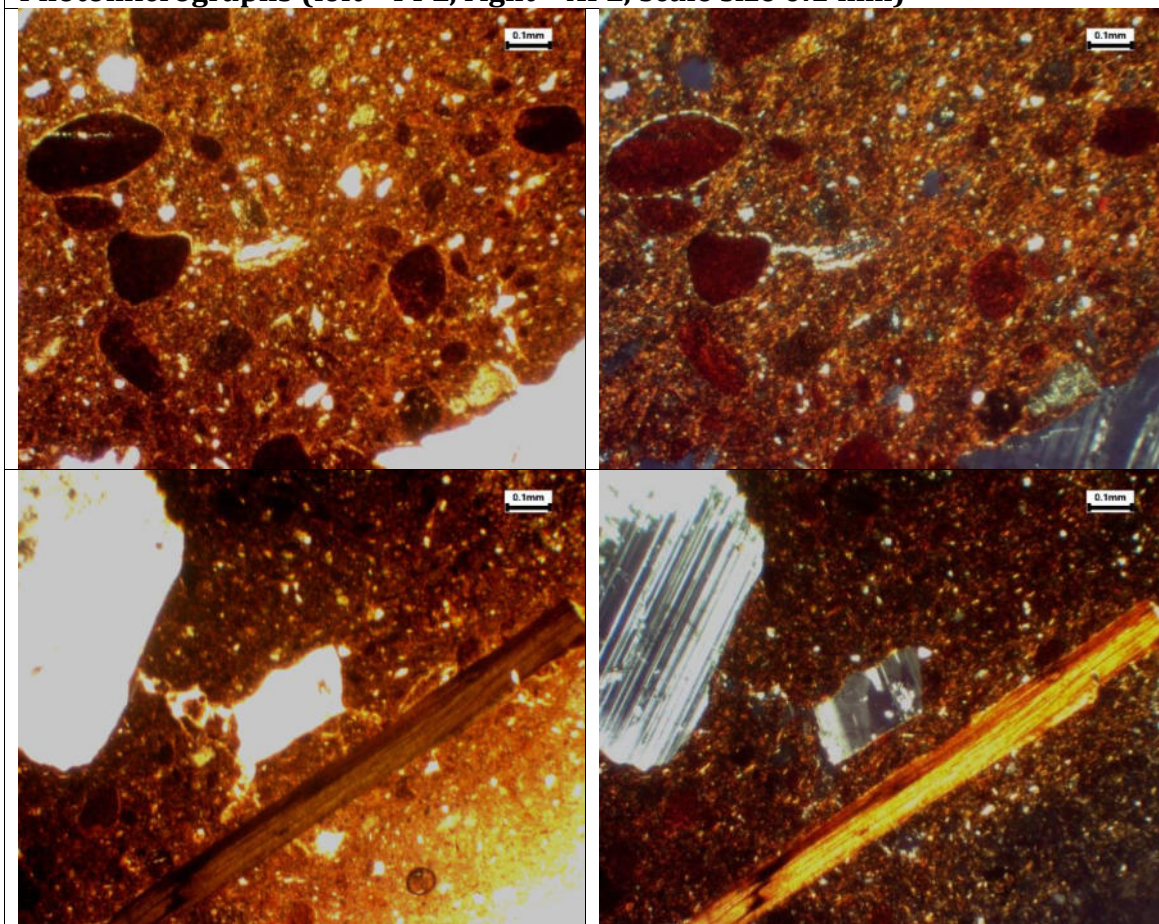
Matrix 75-80%

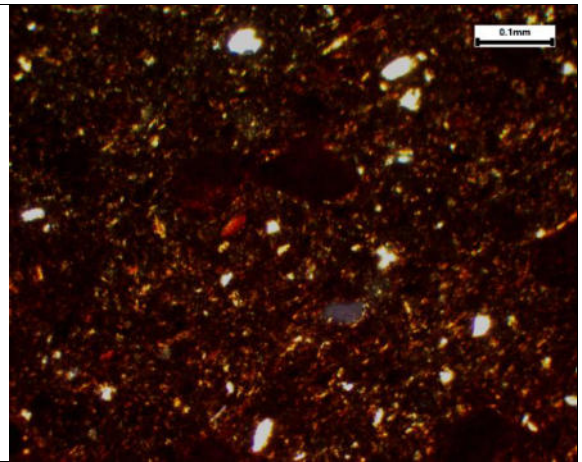
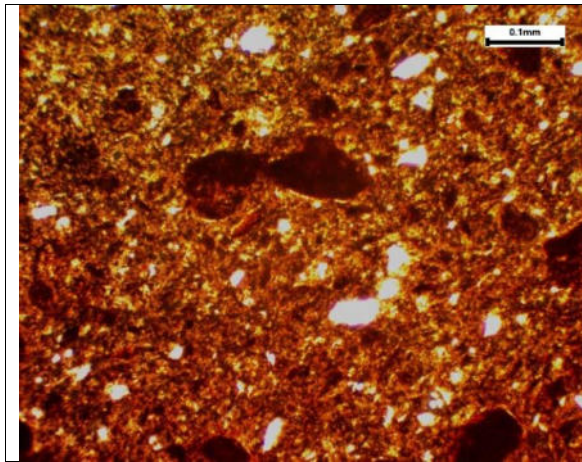
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	moderate	reddish to greyish brown/ dark brown to grey	MSa-CSa clay pellets, >10% of the matrix

Voids 3-5%

Type and size	Distinct characteristics
one mega vugh, macro/ meso vughs, rare vesicles	secondary calcite accumulation in some voids

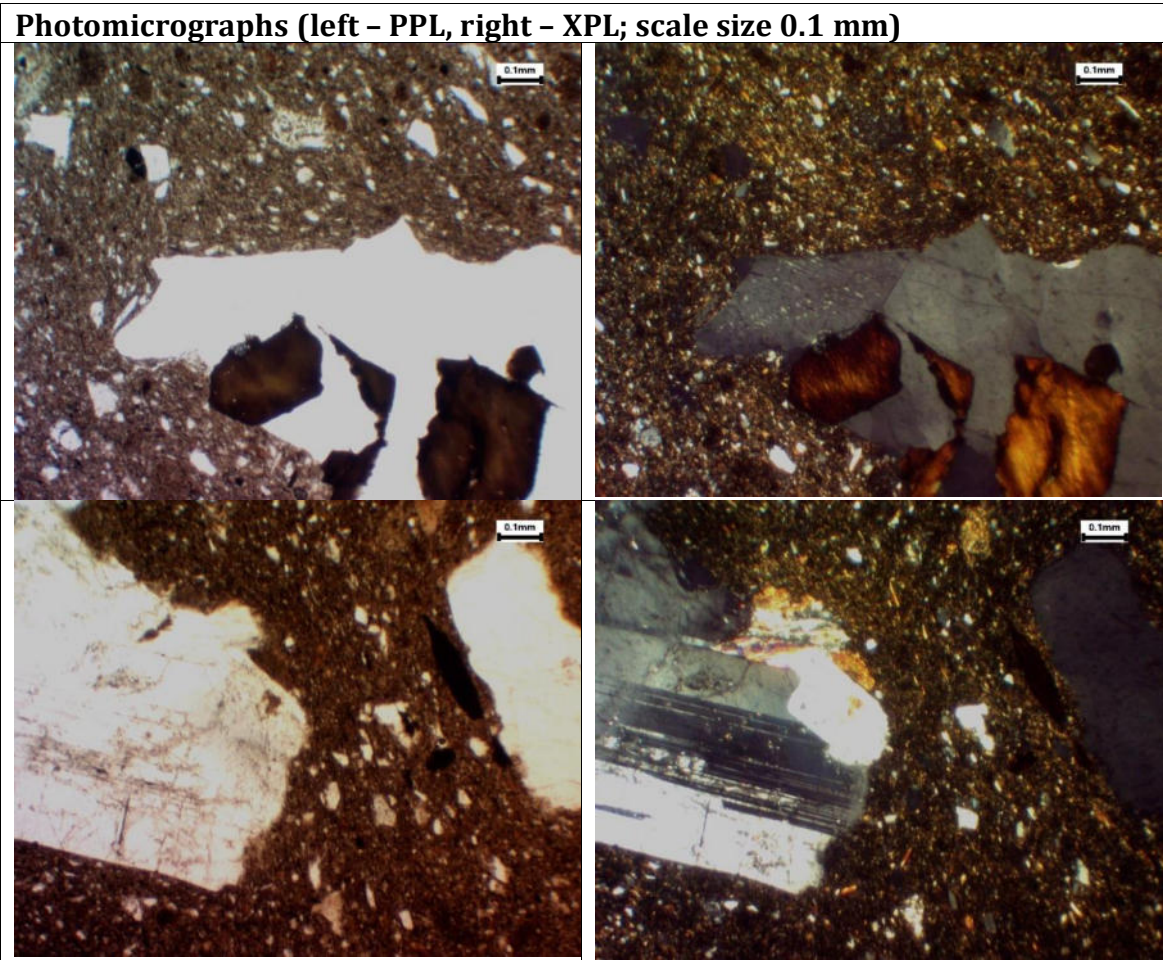
Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)

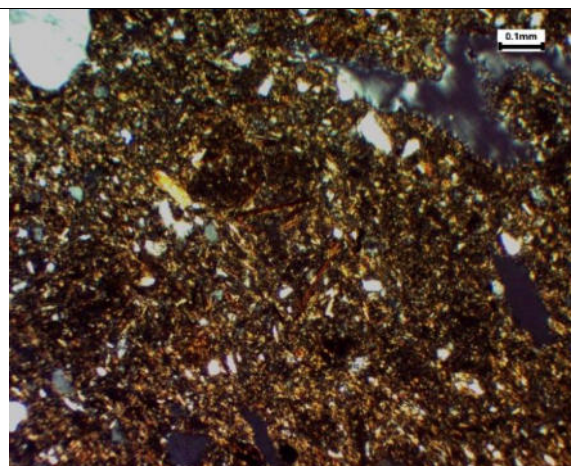
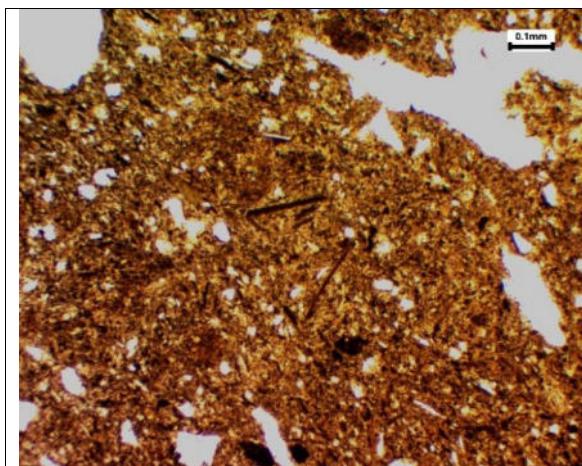




Sample code: CNP170 MFEA Museum Number: K.12003:1011 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC: Rim sherd; fired in reducing atmosphere; decorated with diagonal cord impression; max. wall thickness 6.6 mm. MICROSCOPIC: Non-plastic inclusions 30-40% <table border="1"> <thead> <tr> <th>Coarse 30%</th><th>Fine 70%</th></tr> </thead> <tbody> <tr> <td> - quartz (eq; ang; FSa-MSa) 45% - plagioclase feldspar (eq; ang; FSa-MSa) 30% - granitic rock fragments - quartz, biotite, plagioclase feldspar, hornblende (eq; s-rnd; CSa- </td><td> - mica 50% - quartz 40% - feldspar 15% </td></tr> </tbody> </table>		Coarse 30%	Fine 70%	- quartz (eq; ang; FSa-MSa) 45% - plagioclase feldspar (eq; ang; FSa-MSa) 30% - granitic rock fragments - quartz, biotite, plagioclase feldspar, hornblende (eq; s-rnd; CSa-	- mica 50% - quartz 40% - feldspar 15%
Coarse 30%	Fine 70%				
- quartz (eq; ang; FSa-MSa) 45% - plagioclase feldspar (eq; ang; FSa-MSa) 30% - granitic rock fragments - quartz, biotite, plagioclase feldspar, hornblende (eq; s-rnd; CSa-	- mica 50% - quartz 40% - feldspar 15%				

FGr) 9% • biotite (lamellae; MSa) 5% • haematite? (eq; s-rnd; CSa) 1%				
Matrix 65-67%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	greyish brown/ golden grey	MSa clay pellets, >10% of the matrix
Voids 3-5%				
Type and size		Distinct characteristics		
macro vughs, meso vesicles		none		





Sample code: CNP171 MFEA Museum Number: K.12003:1026 Site: Luohantang	Fabric group: 4; Coarse, Quartz-Feldspar and Granodiorite fragments with fine fraction MSi-sized and smaller
Sherd photo 	Fabric photo  Thin section scan 
Description MACROSCOPIC: Body and handle sherd; fired in oxidising atmosphere; plain; max. wall thickness 6.3 mm. MICROSCOPIC: Non-plastic inclusions 5-10% Coarse 55% Fine 45% - quartz (eq; s-ang; CSa-FGr) 50% - ortho-/plagioclase feldspar (eq; s-ang – s-rnd; CSa) 40% - quartz 90% - feldspar 9.5% - mica 0.5%	

- granitic rock fragments - quartz, feldspar (eq ang, s-ang, s-rnd, CSa) 5%
- siltstone (eq s-rnd CSa-FGr) 5%
- polycrystalline quartz with clinopyroxene? (eq; s-rnd; FGr) 0.5%

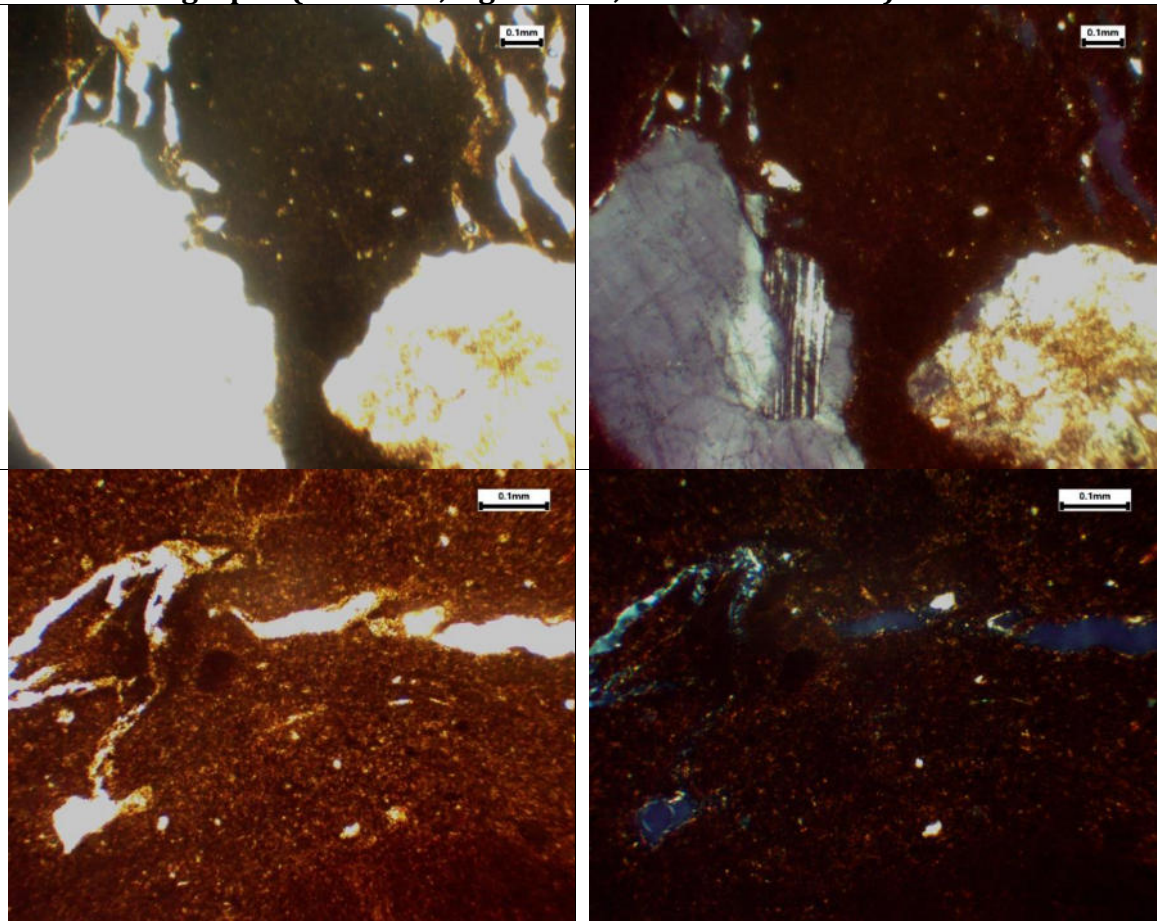
Matrix 75-80%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	dark reddish brown to dark greyish brown/ dark reddish brown	MSa clay pellets, >10% matrix poorly mixed in general; fine fraction of MSi size and smaller

Voids 15%

Type and size	Distinct characteristics
mega/ macro/ meso channels	channels are mostly aligned along the long edge of the sample

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP172 MFEA Museum Number: K.12003:1028 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets				
Sherd photo	Fabric photo				
					
Description					
MACROSCOPIC: Body and handle sherd; fired in oxidising atmosphere, exterior surface thin layer reduced; decorated with vertical (?) cord impression; max. wall thickness 7.4 mm. MICROSCOPIC: Non-plastic inclusions 15% <table border="1"> <thead> <tr> <th>Coarse 40%</th><th>Fine 60%</th></tr> </thead> <tbody> <tr> <td> - granitic rock fragments – combination of quartz, biotite, muscovite, plagioclase feldspar (eq, el; s-ang; CSa) 35% - plagioclase feldspar (eq, el; ang – s-rnd; FSa-CSa) </td><td> - mica 50% - quartz 40% - feldspar 10% </td></tr> </tbody> </table>		Coarse 40%	Fine 60%	- granitic rock fragments – combination of quartz, biotite, muscovite, plagioclase feldspar (eq, el; s-ang; CSa) 35% - plagioclase feldspar (eq, el; ang – s-rnd; FSa-CSa)	- mica 50% - quartz 40% - feldspar 10%
Coarse 40%	Fine 60%				
- granitic rock fragments – combination of quartz, biotite, muscovite, plagioclase feldspar (eq, el; s-ang; CSa) 35% - plagioclase feldspar (eq, el; ang – s-rnd; FSa-CSa)	- mica 50% - quartz 40% - feldspar 10%				

25%

- biotite (lamellae; CSa) 20%
- quartz (eq, el; s-rnd; FSa-CSa) 19%
- micritic calcite (el, eq; s-ang – s-rnd; CSa) 1%

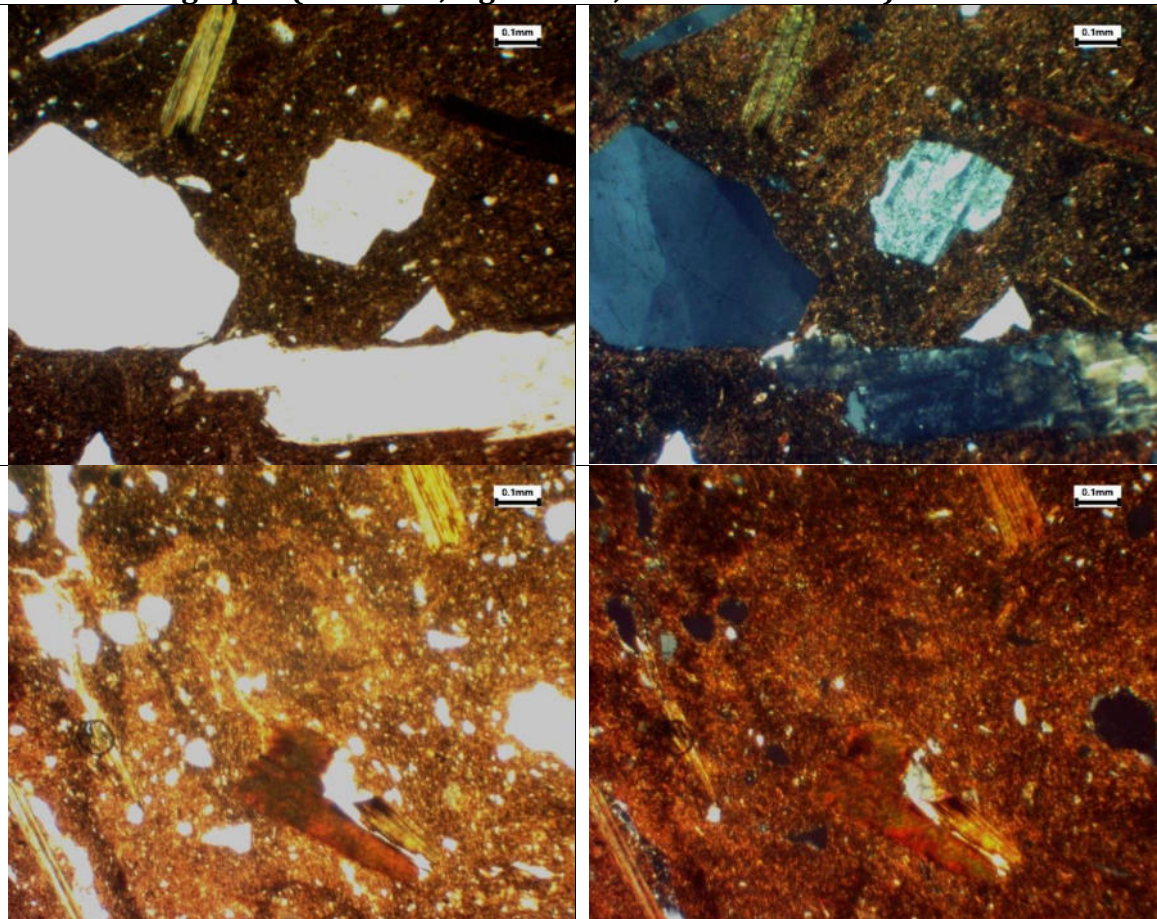
Matrix 80%

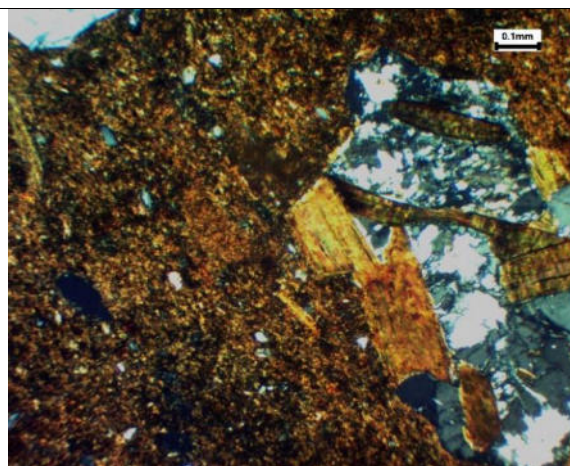
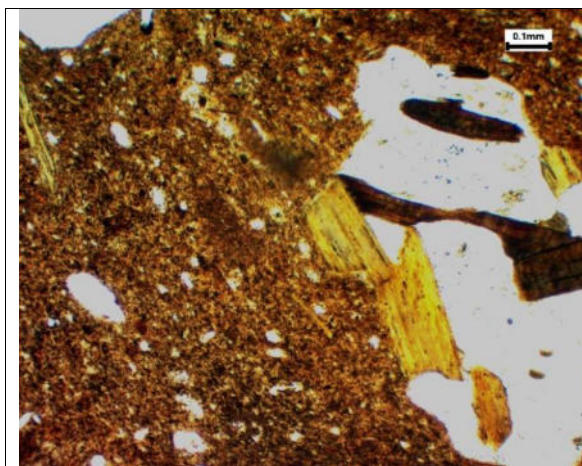
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	reddish brown/ golden brown	MSa-CSa clay pellets, >10% of the matrix

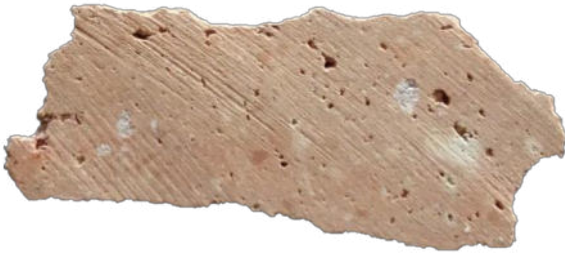
Voids 5%

Type and size	Distinct characteristics
macro planar voids, macro/ meso vughs, vesicles	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)





Sample code: CNP173 MFEA Museum Number: K.12003:1075 Site: Luohantang	Fabric group: 2B; Fine, Mica-Quartz-Feldspar with clay pellets, possibly the same groundmass as in Fabric group 2A				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description MACROSCOPIC: Body and base sherd; fired in oxidising atmosphere; decorated with cross-cord impressions; max. wall thickness 6.3 mm. MICROSCOPIC: Non-plastic inclusions 10%					
<table> <thead> <tr> <th>Coarse 1%</th><th>Fine 99%</th></tr> </thead> <tbody> <tr> <td> - quartz (eq, el; s-ang – s-rnd; FSa-CSa) 55% - plagioclase (eq, el; ang – s-rnd; MSa) 40% - mica (lamellae; FSa) 5% </td><td> - mica 55% - quartz 40% - feldspar 5% </td></tr> </tbody> </table>		Coarse 1%	Fine 99%	- quartz (eq, el; s-ang – s-rnd; FSa-CSa) 55% - plagioclase (eq, el; ang – s-rnd; MSa) 40% - mica (lamellae; FSa) 5%	- mica 55% - quartz 40% - feldspar 5%
Coarse 1%	Fine 99%				
- quartz (eq, el; s-ang – s-rnd; FSa-CSa) 55% - plagioclase (eq, el; ang – s-rnd; MSa) 40% - mica (lamellae; FSa) 5%	- mica 55% - quartz 40% - feldspar 5%				

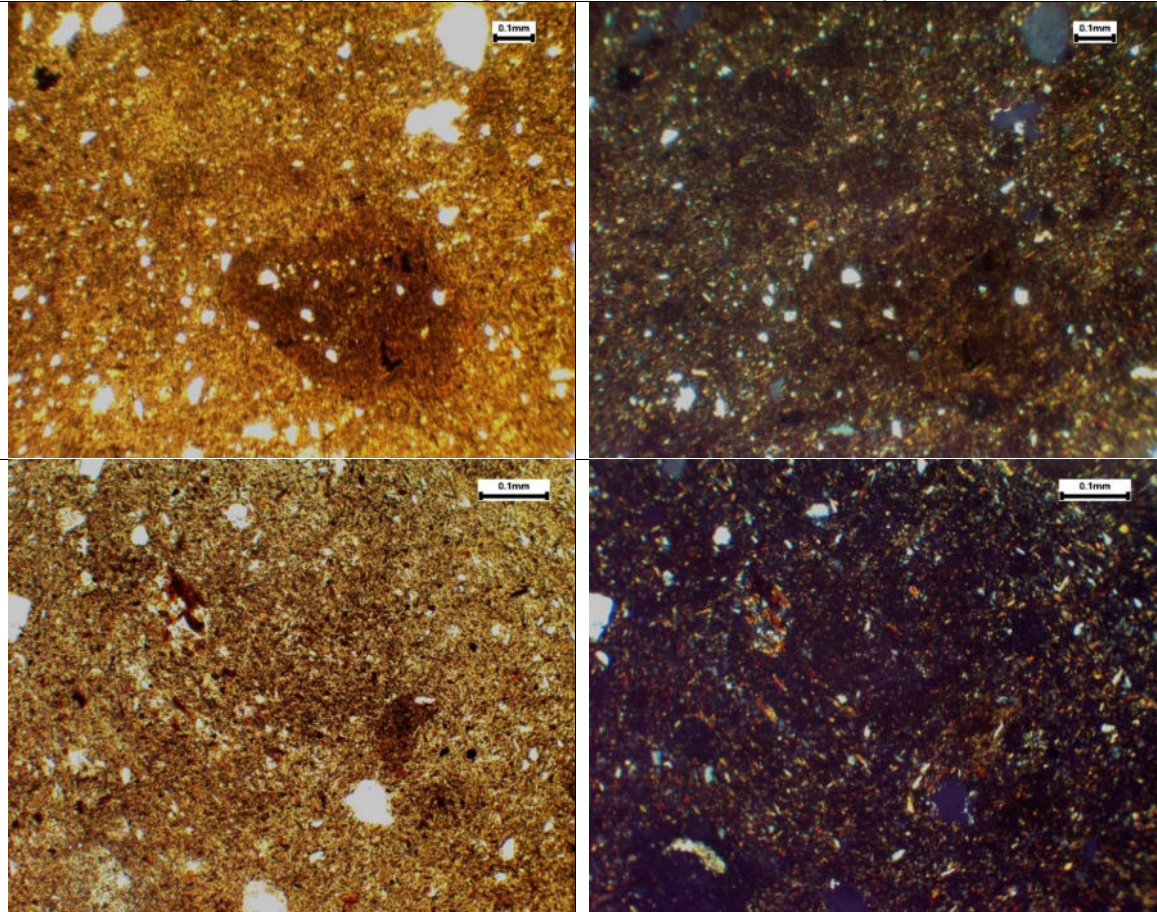
Matrix 85%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	moderate	active	brown/ golden brown	MSa-FGr clay pellets taking up >10% of the matrix; poorly mixed matrix; carbonate inclusion with vitrified matrix surrounding it – result of lime spalling – the sherd body is covered in lime spalls.

Voids 5%

Type and size	Distinct characteristics
few mega vughs, macro/ meso vughs, vesicles	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)



Sample code: CNP174 MFEA Museum Number: K.12003:1095 Site: Luohantang	Fabric group: 4; Coarse, Quartz-Feldspar and Granodiorite fragments with fine fraction MSi-sized and smaller
Sherd photo 	Fabric photo  Thin section scan 
Description MACROSCOPIC: Base sherd; fired in reducing atmosphere; cord impression on the base outside and painted red inside; max. wall thickness 11.5 mm. MICROSCOPIC: Non-plastic inclusions 20% Coarse 20% - quartz (eq, el; ang – s-rnd; FSa-CSa) 45% - plagioclase feldspar (eq, el; ang – s-rnd; FSa-CSa) 35% - granitic rock fragments – combination of quartz, plagioclase, biotite (eq, el; ang – s-rnd; FSa-CSa) 15% Fine 80% - quartz 95% - feldspar 5%	

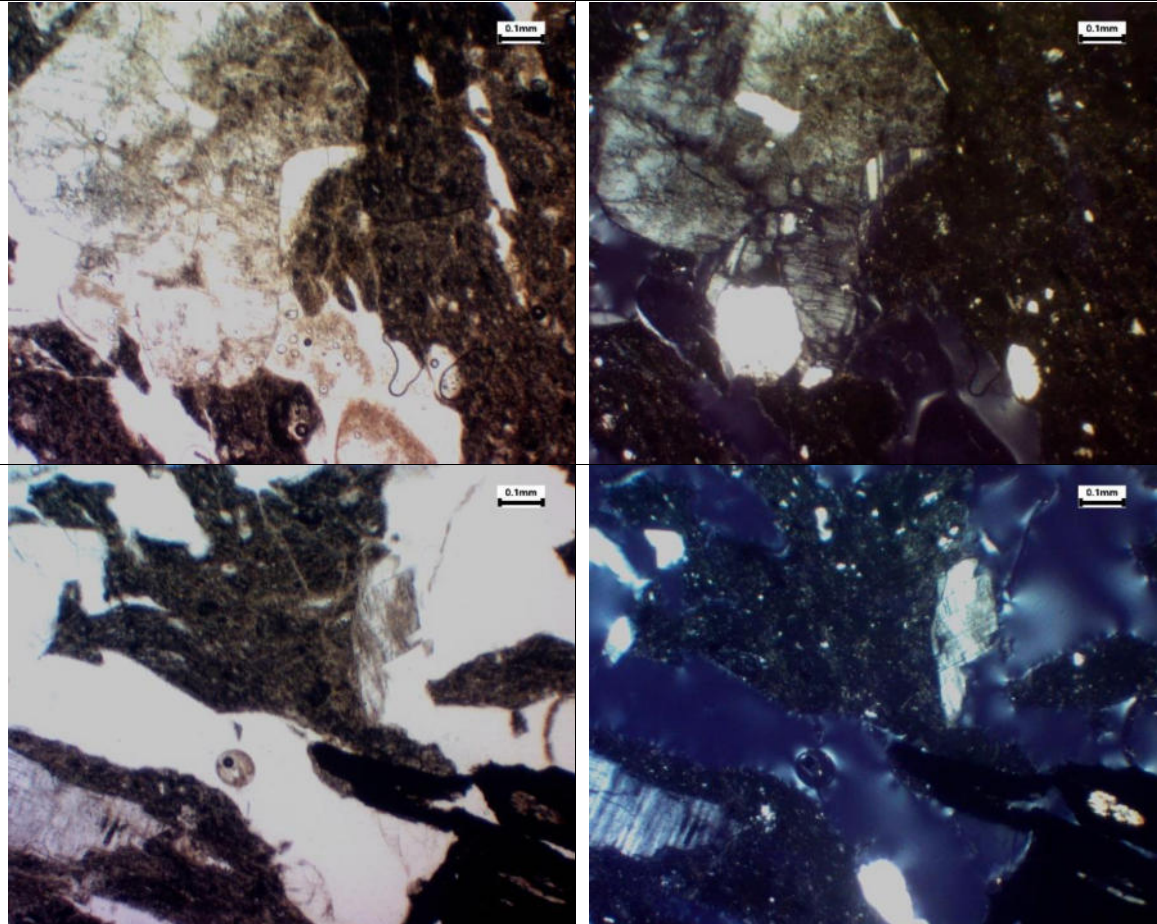
Matrix 65%

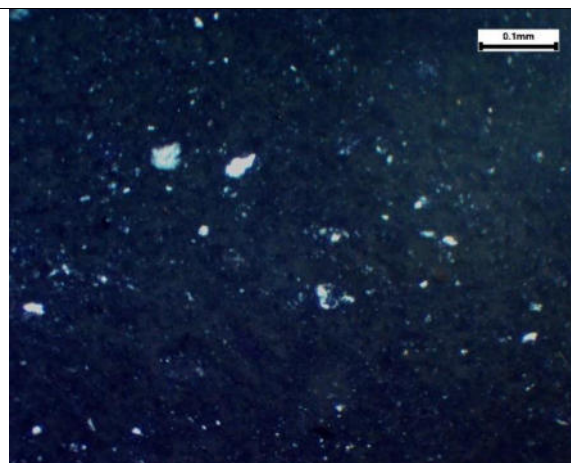
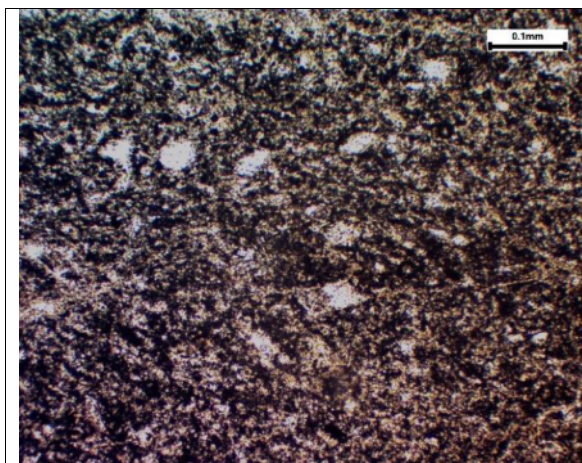
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
fairly homogeneous	poor	moderate	grey to dark grey/ dark grey	fine fraction of MSi size and smaller; CSa vitrified clay pellets, 1-3% of the matrix; biotite is black

Voids 15%

Type and size	Distinct characteristics
mega vughs and channels	The voids are aligned almost parallel to the long edge of the sample – result of shaping or drying?

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)





Sample code: CNP175 MFEA Museum Number: K.12003:1203 Site: Luohantang	Fabric group: 3; Coarse, Feldspar-Quartz-Granodiorite and Sedimentary rock fragments with large clay pellets				
Sherd photo 	Fabric photo  Thin section scan				
Description MACROSCOPIC: Body sherd; oxidised but outer surface dark grey colour; decorated with vertical cord impression and appliqué; max. wall thickness 13.6 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 30%</th><th>Fine 70%</th></tr> </thead> <tbody> <tr> <td> - microcline and plagioclase feldspar (eq; ang; CSa-FGr) 35% - quartz (eq; ang; CSa-FGr) 30%, - granitic rock fragments - combo quartz, plagioclase/ microcline feldspar, biotite/ </td><td> - mica 50% - quartz 40% - feldspar 10% </td></tr> </tbody> </table>		Coarse 30%	Fine 70%	- microcline and plagioclase feldspar (eq; ang; CSa-FGr) 35% - quartz (eq; ang; CSa-FGr) 30%, - granitic rock fragments - combo quartz, plagioclase/ microcline feldspar, biotite/	- mica 50% - quartz 40% - feldspar 10%
Coarse 30%	Fine 70%				
- microcline and plagioclase feldspar (eq; ang; CSa-FGr) 35% - quartz (eq; ang; CSa-FGr) 30%, - granitic rock fragments - combo quartz, plagioclase/ microcline feldspar, biotite/	- mica 50% - quartz 40% - feldspar 10%				

- muscovite (eq; s-ang; CSa-FGr) 20%
- biotite (lamellae; CSa) 9%
- sandstone (eq; s-rnd; CSa-FGr) 3%
- siltstone (eq; rnd; CSa) 1%

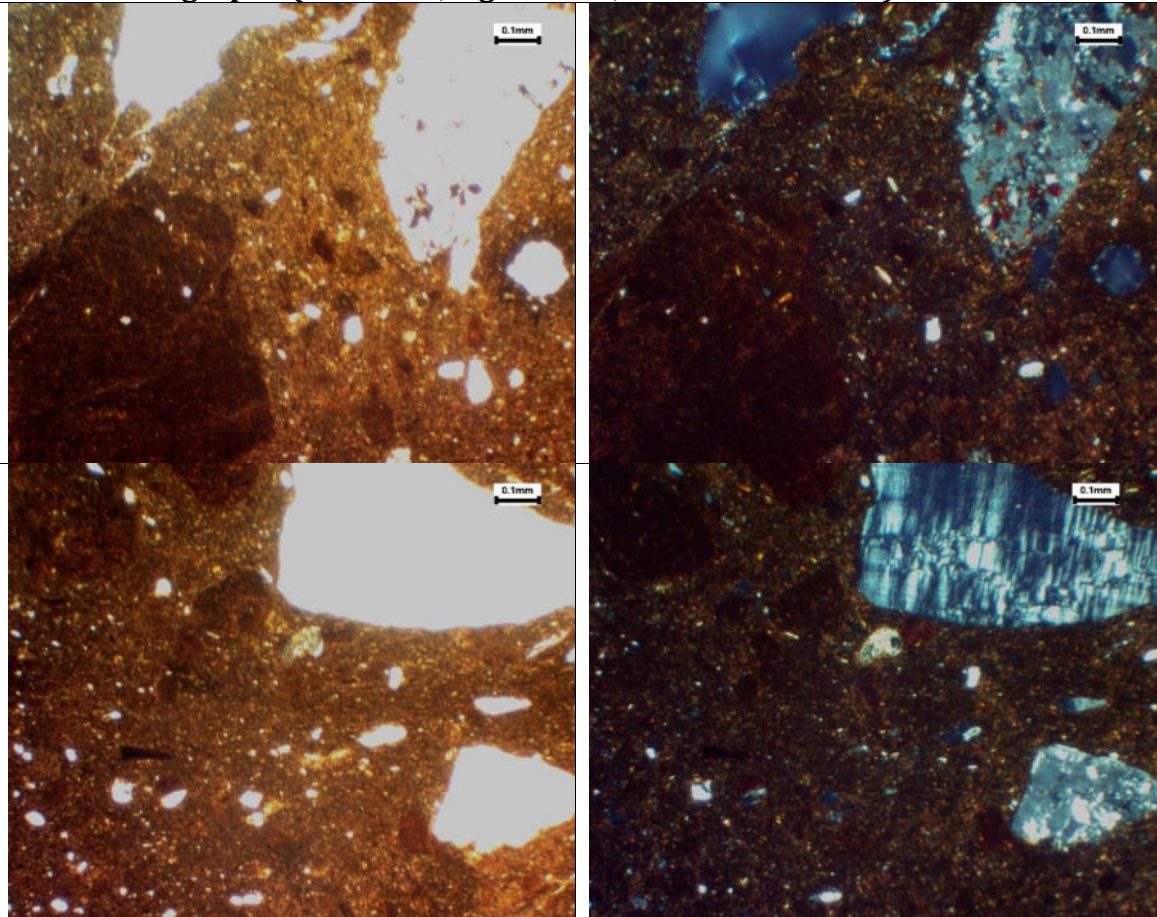
Matrix 70-75%

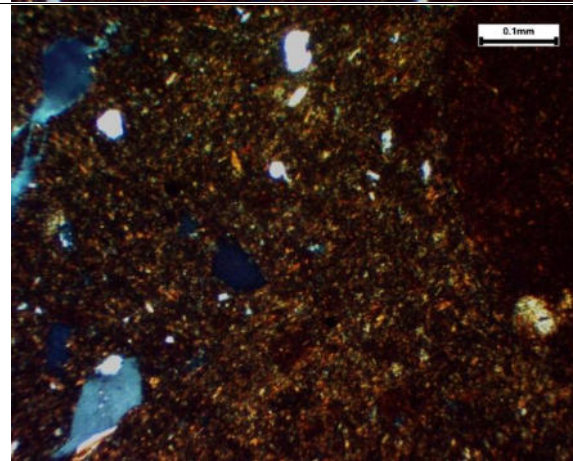
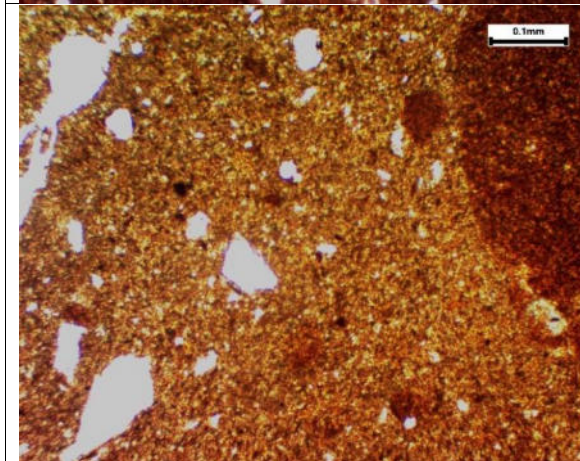
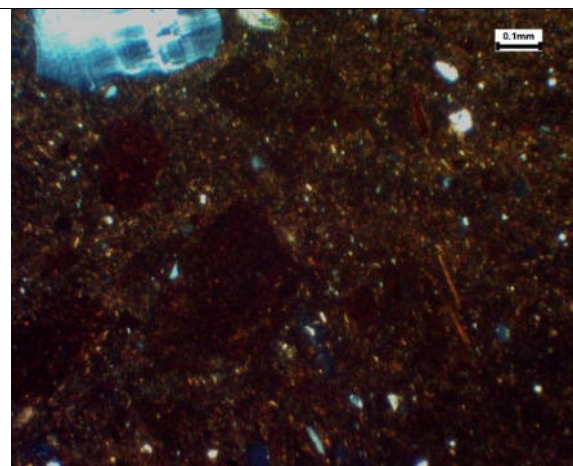
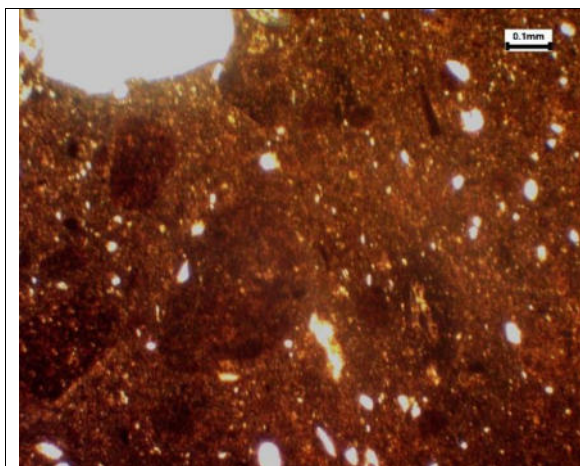
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	brown/ golden brown	MSa-CSa clay pellets, >10% of the matrix

Voids 5-10%

Type and size	Distinct characteristics
mega/ macro vughs, channels, meso vesicles, channels	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)





Sample code: CNP176 MFEA Museum Number: K.12003:1276 Site: Luohantang	Fabric group: 5; Coarse, Quartz-Feldspar vitrified fabric
Sherd photo	Fabric photo
	 Thin section scan 
Description MACROSCOPIC: Body sherd; fired in reducing(?) atmosphere, overfired; decorated with cross-cord impressions; max. wall thickness 7.4 mm. MICROSCOPIC: Non-plastic inclusions 15% Coarse 15% - quartz (eq ang & s-ang, CSa) 60% - plagioclase feldspar (euhd, eq; s-rnd; FSa-CSa) 40% Fine 85% - quartz (the only identifiable type) 100%	

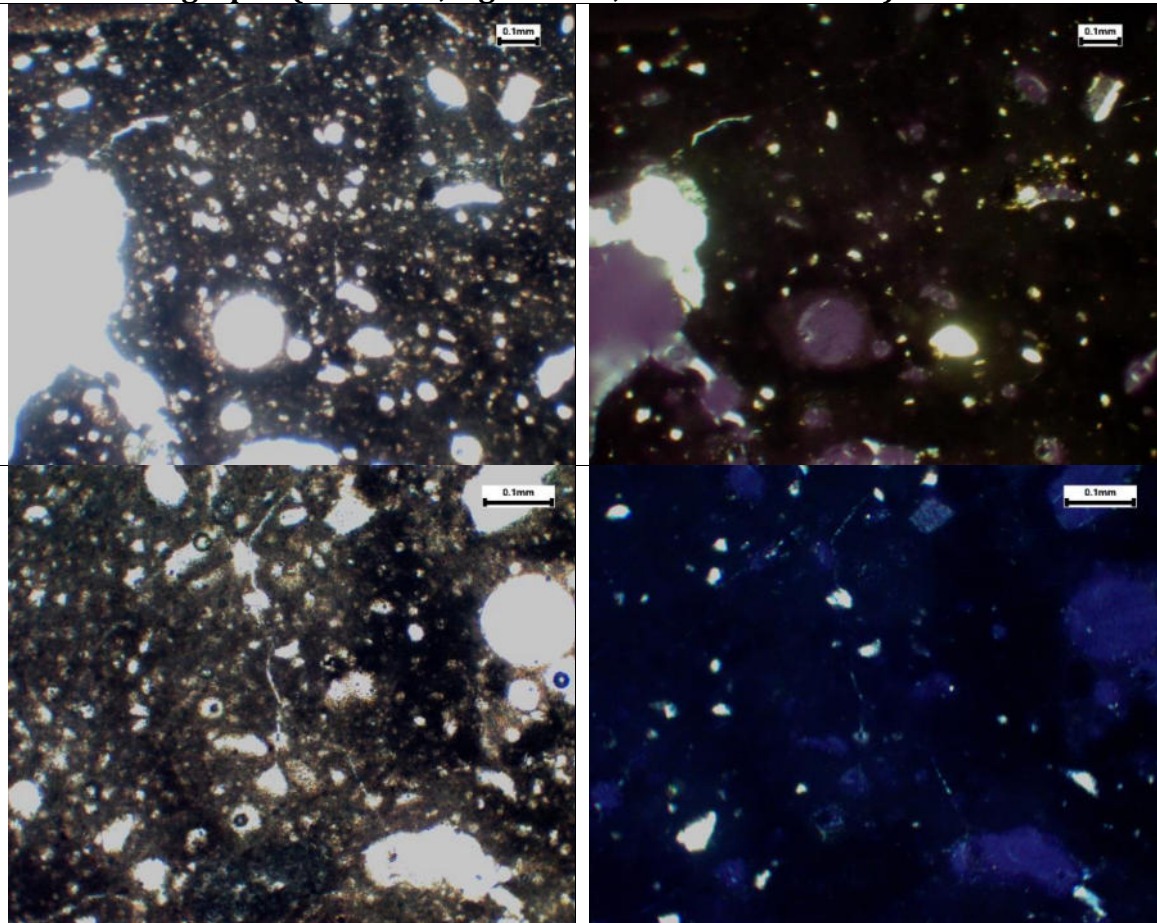
Matrix 55%

Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	inactive	dark grey/ dark grey to black	bloated fabric with MSa-CSa clay pellets (3-5% of the matrix) and black staining; this fabric probably had sedimentary rock inclusions which became unrecognisable due to overfiring; body surface colour is green

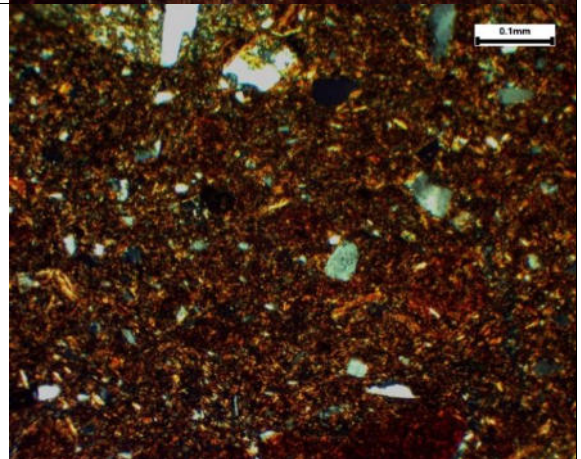
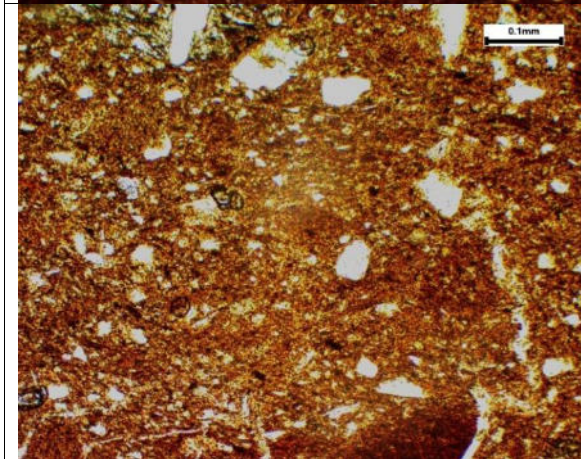
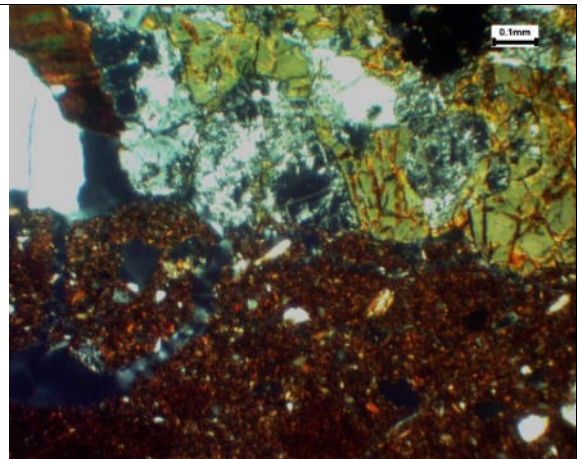
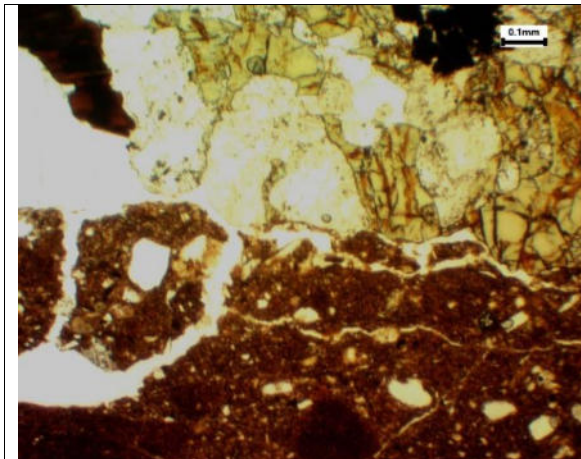
Voids 30%

Type and size	Distinct characteristics
meso/ micro vesicles	Some voids are filled with secondary calcite; vesicle-shaped voids are due to vitrification and bloating of the fabric.

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP177 MFEA Museum Number: K.12003:1458 Site: Luohantang	Fabric group: 3; Coarse, Feldspar-Quartz-Granodiorite and Sedimentary rock fragments with large clay pellets				
Sherd photo	Fabric photo				
					
Description MACROSCOPIC: Rim sherd; fired in oxidising atmosphere; decorated with cross-cord impression(?) and appliqué; max. wall thickness 14.5 mm. MICROSCOPIC: Non-plastic inclusions 25-30% <table border="1"> <thead> <tr> <th>Coarse 20-30%</th><th>Fine 70-80%</th></tr> </thead> <tbody> <tr> <td> - granitic rock fragments – combination of quartz, plagioclase feldspar, biotite and/ or muscovite, </td><td> - mica 50% - quartz 49% </td></tr> </tbody> </table>		Coarse 20-30%	Fine 70-80%	granitic rock fragments – combination of quartz, plagioclase feldspar, biotite and/ or muscovite,	- mica 50% - quartz 49%
Coarse 20-30%	Fine 70-80%				
granitic rock fragments – combination of quartz, plagioclase feldspar, biotite and/ or muscovite,	- mica 50% - quartz 49%				



Sample code: CNP178 MFEA Museum Number: K.12003:1472 Site: Luohantang	Fabric group: 6A; Coarse, Quartz and Quartz Mica Schist and Sedimentary rock fragments				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Rim sherd; fired in reducing atmosphere; decorated with diagonal cord impression; max. wall thickness 11.2 mm. MICROSCOPIC: Non-plastic inclusions 30% <table border="1"> <thead> <tr> <th>Coarse 20%</th> <th>Fine 80%</th> </tr> </thead> <tbody> <tr> <td> - quartz (eq; s-rnd – ang, FSa-CSa) 50% - quartz-mica schist (eq, el; s-rnd; CSa-FGr) 25% - plagioclase feldspar (eq; s-ang; FSa-CSa) 15% - biotite (lamellae; FSa-MSa) 5% - siltstone (eq; s-rnd; CSa) 5% </td> <td> - quartz 50% - mica 45% - feldspar 5% </td> </tr> </tbody> </table>		Coarse 20%	Fine 80%	- quartz (eq; s-rnd – ang, FSa-CSa) 50% - quartz-mica schist (eq, el; s-rnd; CSa-FGr) 25% - plagioclase feldspar (eq; s-ang; FSa-CSa) 15% - biotite (lamellae; FSa-MSa) 5% - siltstone (eq; s-rnd; CSa) 5%	- quartz 50% - mica 45% - feldspar 5%
Coarse 20%	Fine 80%				
- quartz (eq; s-rnd – ang, FSa-CSa) 50% - quartz-mica schist (eq, el; s-rnd; CSa-FGr) 25% - plagioclase feldspar (eq; s-ang; FSa-CSa) 15% - biotite (lamellae; FSa-MSa) 5% - siltstone (eq; s-rnd; CSa) 5%	- quartz 50% - mica 45% - feldspar 5%				

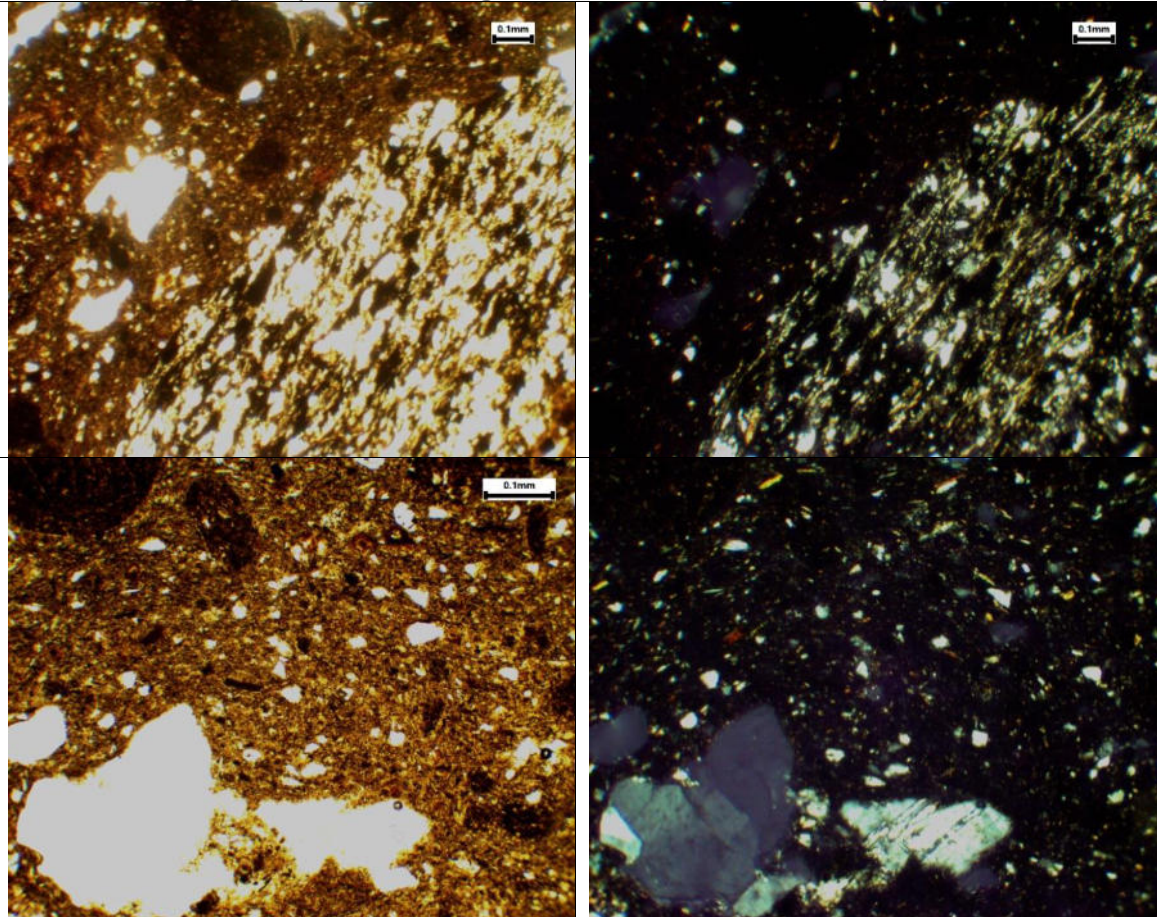
Matrix 75-80%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	moderate	grey brown/ dark grey brown	MSa-CSa clay pellets taking up >10% of the matrix

Voids 5-10%

Type and size	Distinct characteristics
macro vughs, meso vughs and vesicles, few meso channels	Rare voids are filled with secondary calcite.

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP179 MFEA Museum Number: K.12003:1507 Site: Luohantang	Fabric group: 2A; Coarse, Quartz-Feldspar-Biotite and Granodiorite fragments with large clay pellets
Sherd photo	Fabric photo
	 Thin section scan 
Description MACROSCOPIC: Body sherd; oxidising, exterior surface thin layer reduced; decorated with vertical cord impression and appliqué(?); max. wall thickness 6.3 mm. MICROSCOPIC: Non-plastic inclusions 10-15% Coarse 30% - quartz (eq; ang; FSa-CSa) 40% - plagioclase feldspar (eq; ang – s-rnd; MSa) 35% - granitic rock fragments – combination of quartz, Fine 70% - quartz 80% - mica 20%	

plagioclase feldspar, biotite and/or muscovite (eq;
ang – s-ang; CSa-FGr) 25%

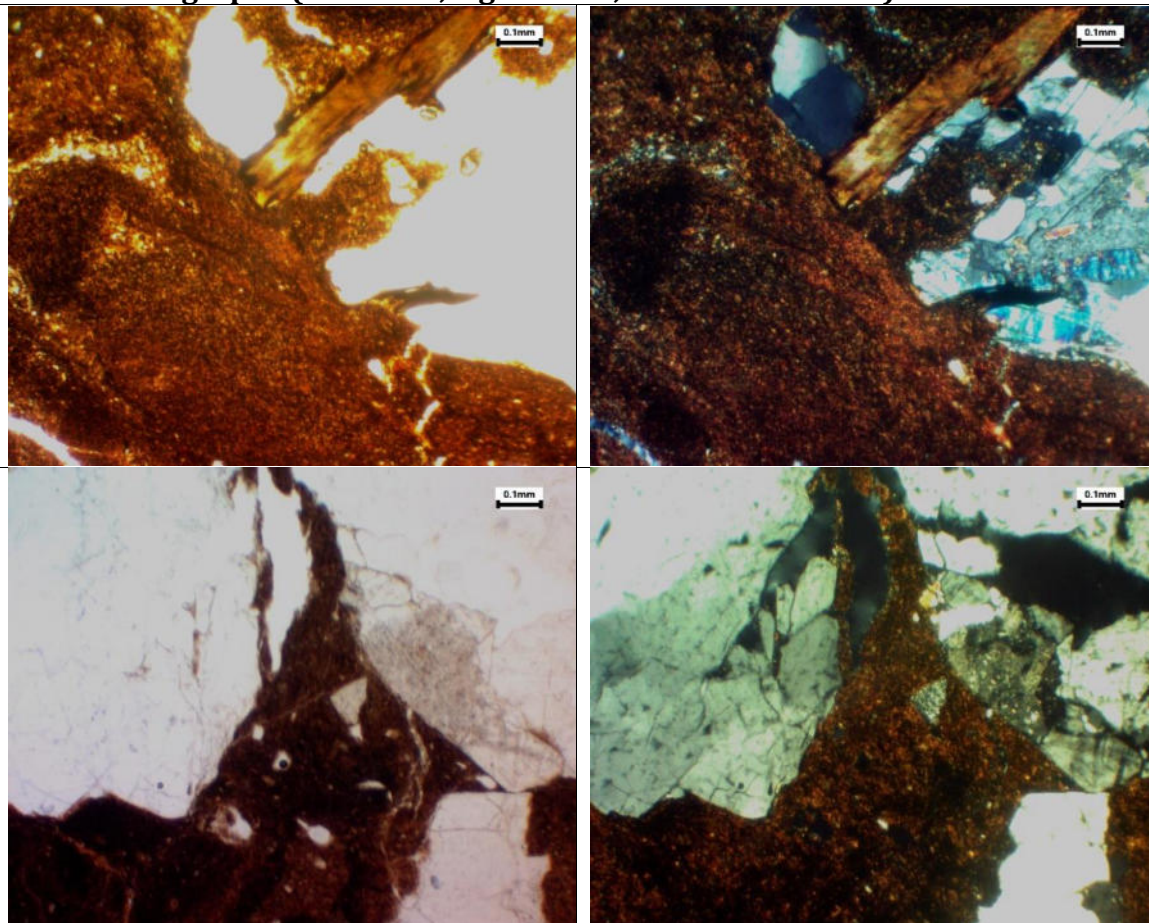
Matrix 80-85%

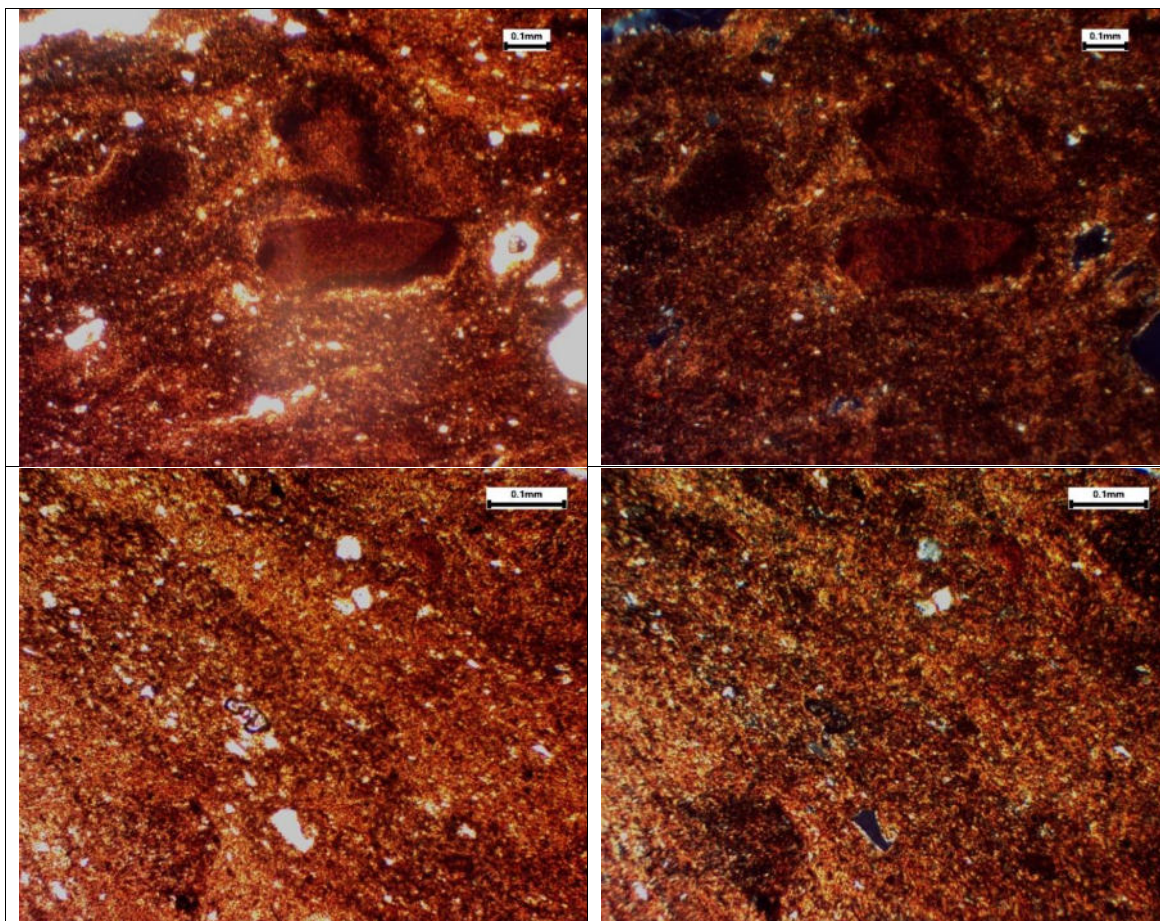
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	active	reddish brown to dark brown/ golden brown	MSa-CSa clay pellets, >10% of the matrix; fine fraction is of MSi size and smaller

Voids 3-5%

Type and size	Distinct characteristics
rare mega channels, macro/ meso vughs	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)





Sample code: CNP180 MFEA Museum Number: K.12003:214 Site: Luohantang	Fabric group: 1B; Fine, Mica-Quartz, inclusions MSi-sized and smaller			
Sherd photo	Fabric photo			
				
	Thin section scan			
Description				
MACROSCOPIC: Rim sherd; fired in oxidising atmosphere; polished and painted black outside and inside; max. wall thickness 5.6 mm.				
MICROSCOPIC: Non-plastic inclusions 20%/ Matrix 87%/ Voids 3%				
Non-plastic inclusions 20%				
Coarse 0%				
Fine 100%				
none				
• mica 60%				
• quartz 40%				
Matrix 87%				
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	active	brown/ golden brown	fine fraction is of MSi size and smaller

Voids 3%

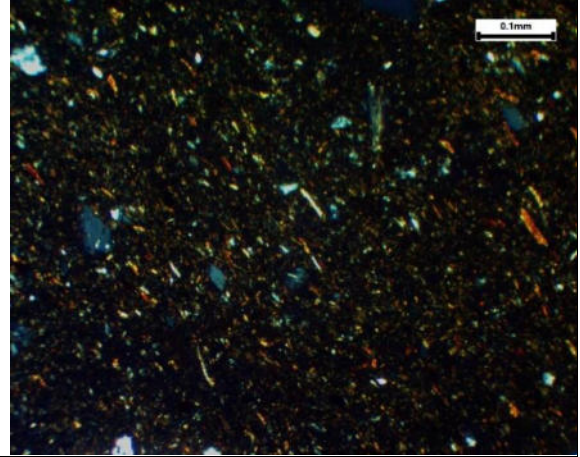
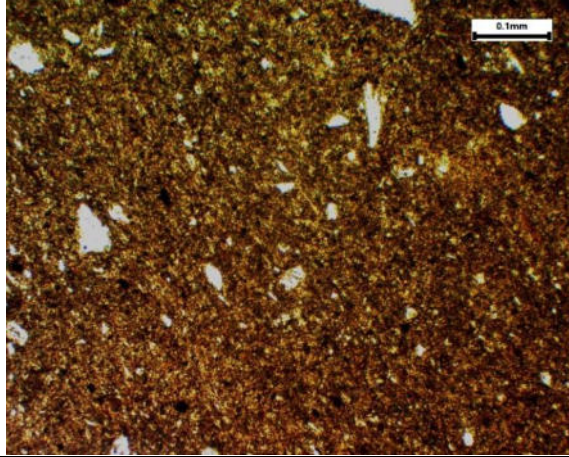
Type and size

meso vughs, vesicles

Distinct characteristics

none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP181 MFEA Museum Number: K.16000:051 Site: Luohantang	Fabric group: 8; Coarse-Fine-combination: Coarse Quartz-Feldspar and Granodiorite fragments
Sherd photo 	Fabric photo  Thin section scan 
Description MACROSCOPIC: Body sherd; oxidised fine fabric, coarse fabric has a reduced inner layer and oxidised exterior layer; upper half is polished and painted black, lower part has diagonal cord impressions; max. wall thickness 5.9 mm.	

MICROSCOPIC:

Non-plastic inclusions 30-40% of the entire sherd (different groundmass in both fabrics)

Coarse fabric 30% inclusions

Coarse 5-10%:

- quartz (eq; rnd; FSa-FGr) 30%
- granitic rock fragments – combination of quartz, plagioclase feldspar, biotite (eq; MSa-CSa 20%
- haematite? with quartz inclusions (eq, el; rnd; MSa) 20%
- plagioclase feldspar (eq; s-ang; CSa) 20%
- biotite (lamellae; FSa) 10%

Fine 90-95%:

- mica 50%
- quartz 50%

Fine fabric 10% inclusions

Coarse 0%

Fine 100%:

- mica 55%
- quartz 45%

Matrix 60-65%

Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
coarse fabric: homogeneous	coarse fabric:	coarse fabric:	coarse: mostly grey/	coarse and fine fabric have a different groundmass – the groundmass of the coarse fabric has a higher amount of fine fraction; the groundmass of the fine fabric is similar to 1B – MSi and smaller sized fine fraction
fine fabric: homogeneous	poor fine fabric: well	moderate fine fabric: active	dark grey fine: dark brown/ dark red brown	

Voids 5%

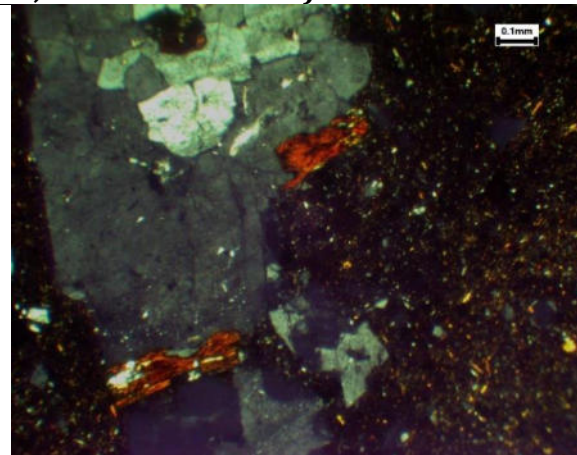
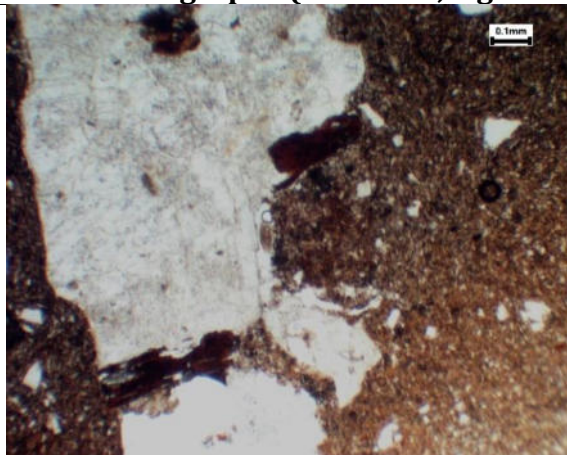
Type and size

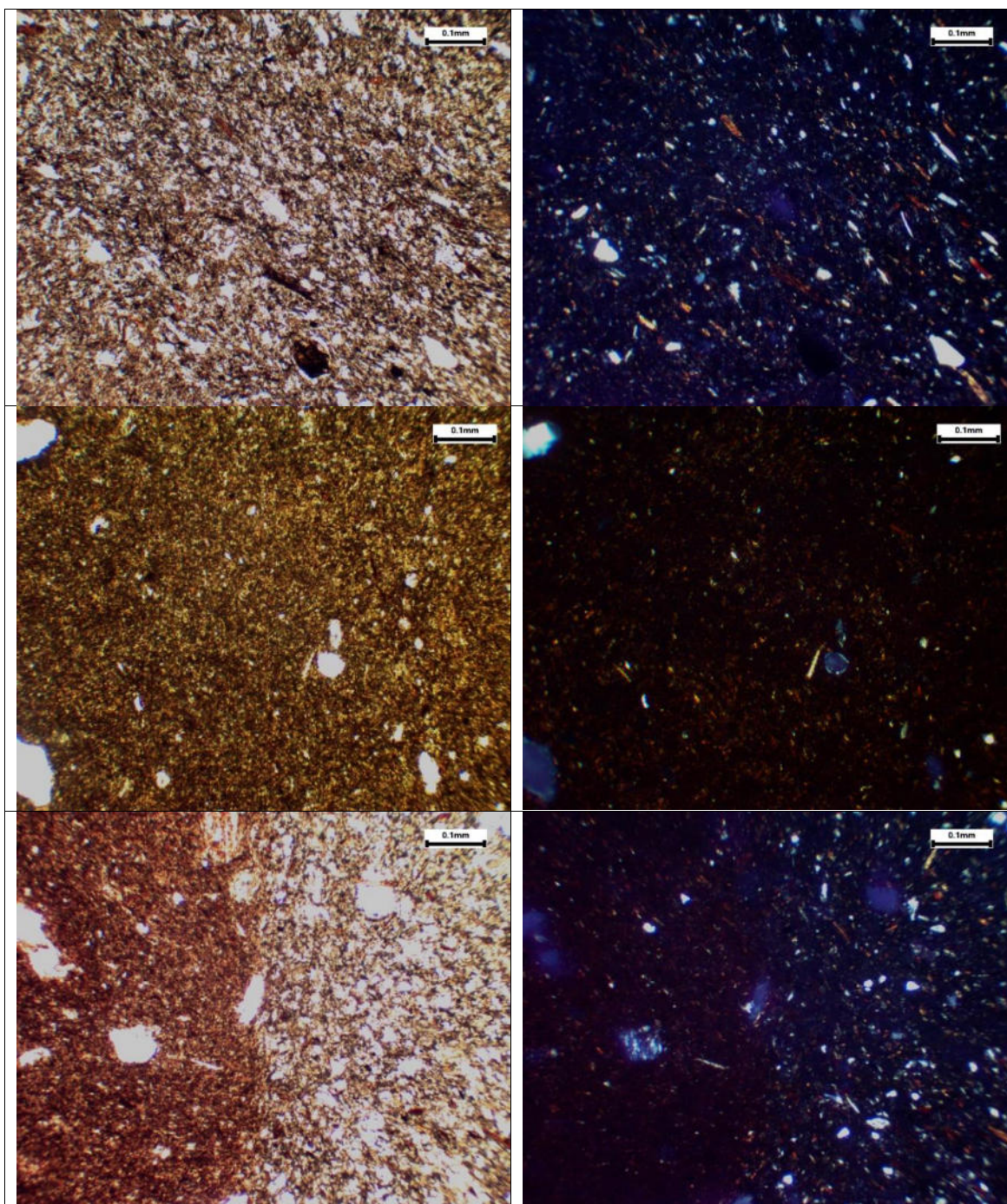
macro/meso vughs, vesicles, channels

Distinct characteristics

none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)





Sample code: CNP182 MFEA Museum Number: K.2119:66 Site: Zhujiashai	Fabric group: 6; Coarse, Grog
Sherd photo	Fabric photo
	
	Thin section scan 
Description MACROSCOPIC: Body sherd; unclear if oxidising or reducing – pale yellow greyish fabric; polished and painted red; max. wall thickness 14 mm. MICROSCOPIC: Non-plastic inclusions 25%	
Coarse 5-10% - grog of less vitrified fabric? with quartz-mica-feldspar (eq, el; s-ang – s-rnd; CSa) 50% - quartz (eq, el; ang – s-rnd; MSa) 20% - metamorphic (or sand-grained sedimentary?) rock fragments – combination of quartz, mica (eq rnd, MSa?) 20% - plagioclase feldspar (eq; s-rnd; MSa) 10%	Fine 90-95% - quartz 69% - mica 30% - feldspar 1%?

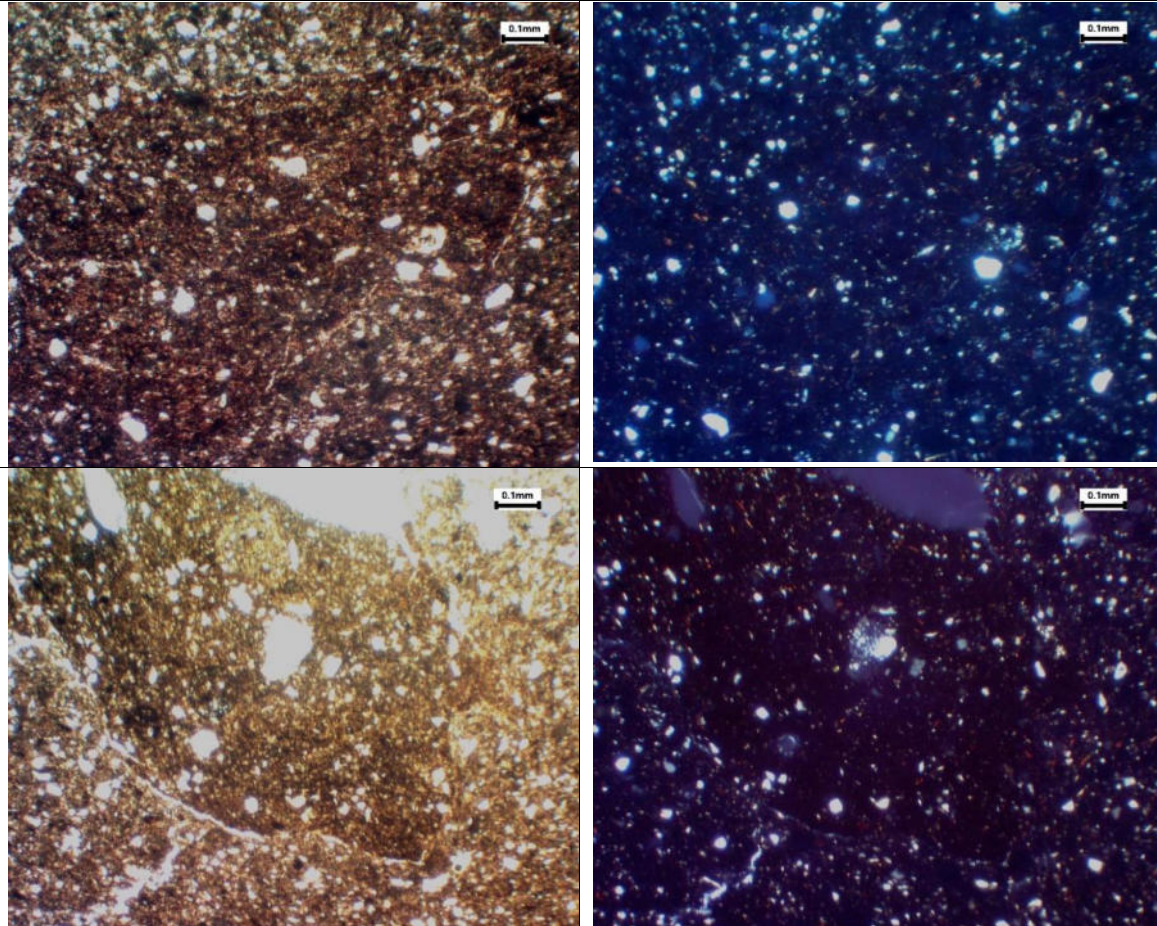
Matrix 70-72%

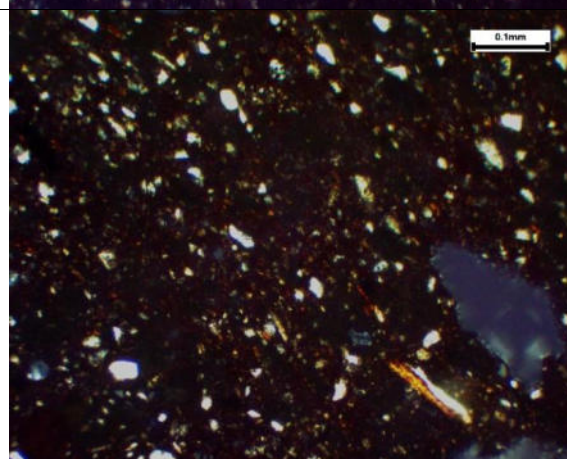
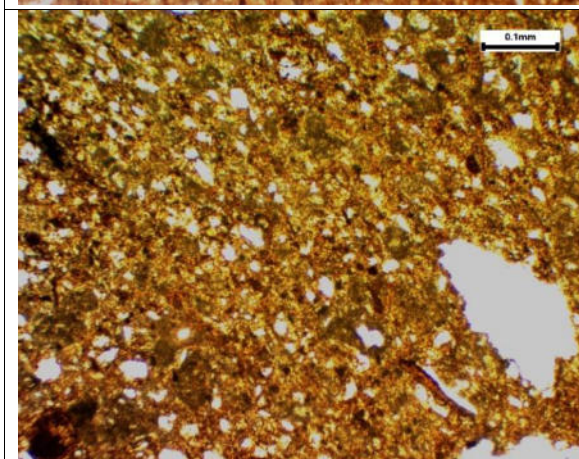
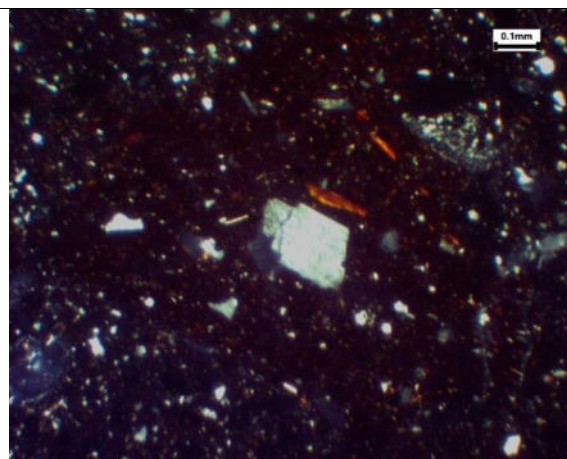
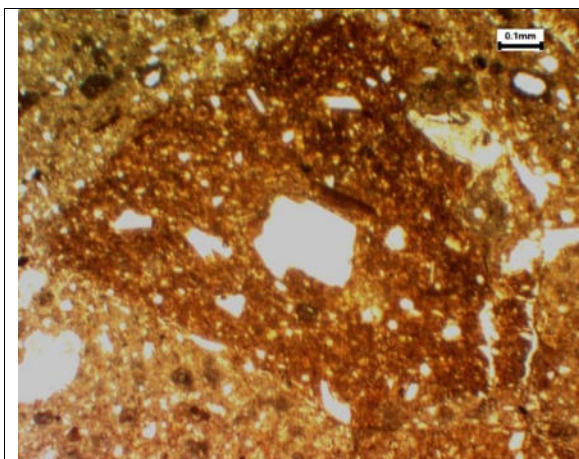
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous	poor	inactive	greenish brown/ dark greenish red brown	partially vitrified

Voids 3-5%

Type and size	Distinct characteristics
macro vughs and channels, meso vughs and vesicles	one large void has secondary calcite; some voids have black margins - something dissolved from vitrification?

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)





Sample code: CNP183 MFEA Museum Number: K.2119:92 Site: Zhujiashai	Fabric group: 5B; Coarse Quartz, Metamorphic and Sedimentary rock fragments				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description MACROSCOPIC: Body sherd; slightly reduced core and oxidised margins; polished and painted black; max. wall thickness 8 mm. MICROSCOPIC: Non-plastic inclusions 20%					
<table border="0"> <thead> <tr> <th>Coarse 40%</th><th>Fine 60%</th></tr> </thead> <tbody> <tr> <td> - quartz (eq, el; s-ang – rnd; FSa-MSa) 47% - grey vitrified mudstone? (eq, el; s-rnd – rnd; MSa-CSa) 30% - metamorphic rock fragments - quartz-mica schist? (eq, el; ang – s-rnd; MSa) 11% </td><td> - mica 60% - quartz 35% - feldspar 5% </td></tr> </tbody> </table>		Coarse 40%	Fine 60%	- quartz (eq, el; s-ang – rnd; FSa-MSa) 47% - grey vitrified mudstone? (eq, el; s-rnd – rnd; MSa-CSa) 30% - metamorphic rock fragments - quartz-mica schist? (eq, el; ang – s-rnd; MSa) 11%	- mica 60% - quartz 35% - feldspar 5%
Coarse 40%	Fine 60%				
- quartz (eq, el; s-ang – rnd; FSa-MSa) 47% - grey vitrified mudstone? (eq, el; s-rnd – rnd; MSa-CSa) 30% - metamorphic rock fragments - quartz-mica schist? (eq, el; ang – s-rnd; MSa) 11%	- mica 60% - quartz 35% - feldspar 5%				

- sandstone in clay cement (eq; s-ang; MSa) 10%
- volcanic rock fragment (eq; rnd; MSa) 1%
- pyroxene? (el; s-rnd; MSa) 1%

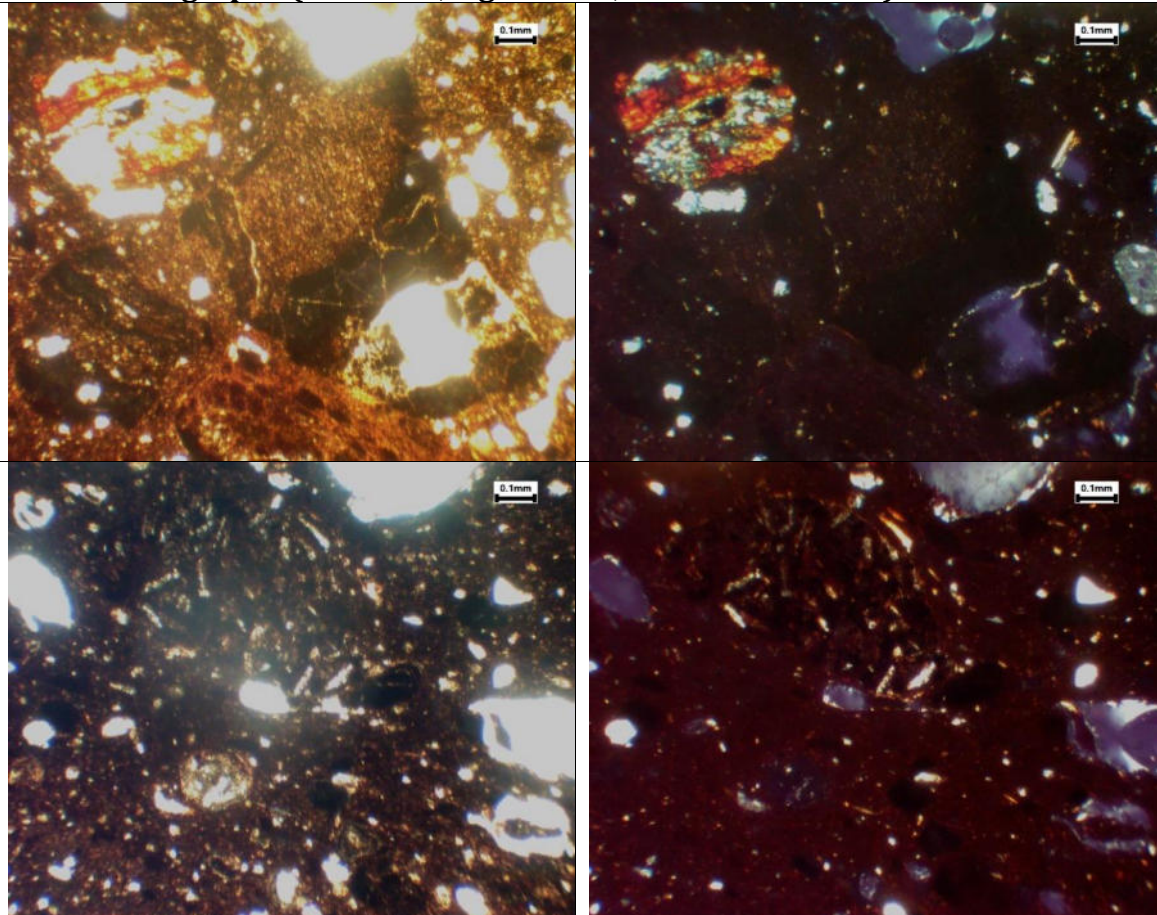
Matrix 65%

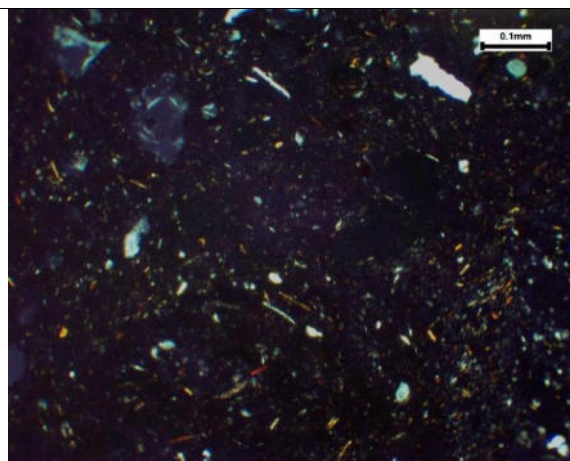
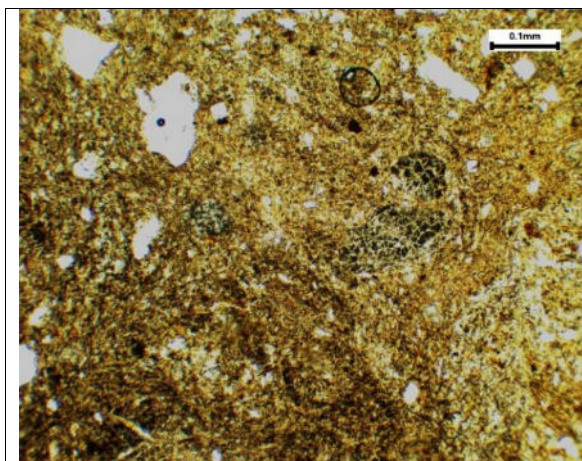
Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
heterogeneous?	poor	inactive	greyish brown/ dark grey, reddish brown	matrix partially vitrified; mudstone or clay pellets?

Voids 15%

Type and size	Distinct characteristics
mega/macro/meso channels; macro/meso vughs, vesicles	one large void filled with secondary calcite

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)





Sample code: CNP184 MFEA Museum Number: K.2119:83 Site: Zhujiashai	Fabric group: 2A; Fine, Mica-Quartz-Feldspar				
Sherd photo 	Fabric photo  Thin section scan 				
Description MACROSCOPIC: Shoulder sherd; slightly reduced core and oxidised margins; polished and painted black; max. wall thickness 6.2 mm. MICROSCOPIC: Non-plastic inclusions 20% <table border="1"> <thead> <tr> <th>Coarse 0%</th> <th>Fine 100%</th> </tr> </thead> <tbody> <tr> <td>none</td> <td> • mica 55% • quartz 40% • feldspar 5% </td> </tr> </tbody> </table>		Coarse 0%	Fine 100%	none	• mica 55% • quartz 40% • feldspar 5%
Coarse 0%	Fine 100%				
none	• mica 55% • quartz 40% • feldspar 5%				

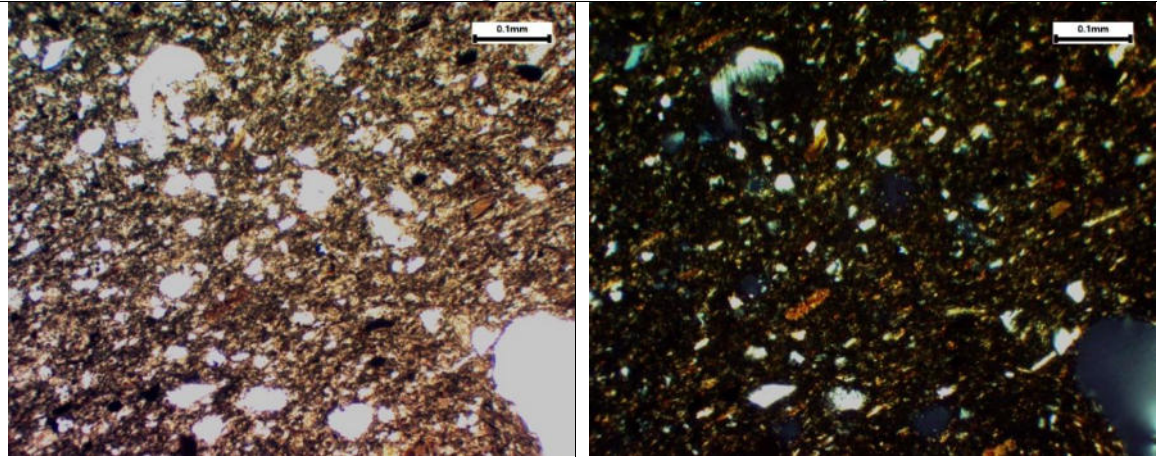
Matrix 75%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	well	moderate	grey/ dark golden grey	none

Voids 5%

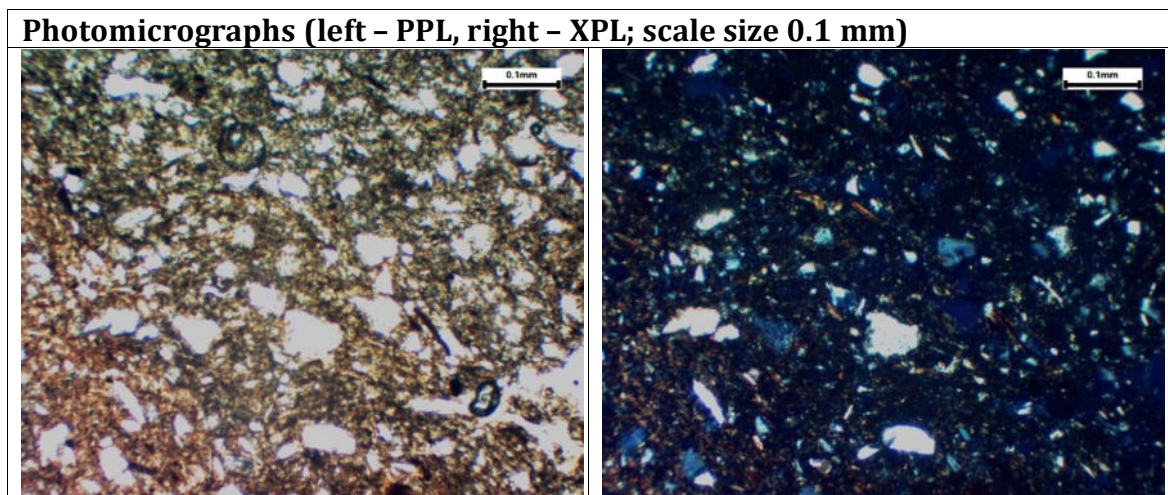
Type and size	Distinct characteristics
one mega channel, macro/meso vughs, channels	none

Photomicrographs (left - PPL, right - XPL; scale size 0.1 mm)



Sample code: CNP185 MFEA Museum Number: K.2119:103 Site: Zhujiashai	Fabric group: 2A; Fine, Mica-Quartz-Feldspar
Sherd photo	Fabric photo
	
Description MACROSCOPIC: Body sherd; reduced core, oxidised margins; polished and painted black; max. wall thickness 5.7 mm. MICROSCOPIC: Non-plastic inclusions 30% Coarse 3% Fine 97% - quartz (eq, el; s-ang; FSa-MSa) 100% - mica 55% - quartz 30% - feldspar 10% - calcite 5%	

Matrix 65%				
Homo-/ heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
fairly homogeneous	well	inactive	grey with a red brown streak closer to the outer surface/ dark grey and golden-brown streak	MSa clay pellets, 1-3% of the matrix
Voids 5%				
Type and size		Distinct characteristics		
macro/ meso vughs, vesicles		some voids have charred(?) black margins		



Sample code: CNP186 MFEA Museum Number: K.2119:104 Site: Zhujiashai	Fabric group: 2A; Fine, Mica-Quartz-Feldspar
Sherd photo	Fabric photo
	
	Thin section scan 
Description MACROSCOPIC: Body sherd; core layers - exterior orange, middle red orange, interior light grey, inside is surface orange; polished and painted black; max. wall thickness 7.8 mm. MICROSCOPIC: Non-plastic inclusions 20% Coarse 3-5% Fine 95-97% - quartz (eq, el; s-ang – s-rnd; FSa-MSa) 40% - micritic and crystalline calcite and carbonate rock with ooid structure (eq; s-ang – rnd; MSa-CSa) - mica 40% - quartz 35% - calcite 20%	

30%

- feldspar (eq; s-ang; MSa) 17%
- metamorphic rock fragments - quartz schist? (eq; s-ang; MSa) 12%
- granitic rock fragments – combination of plagioclase feldspar and quartz (eq; s-ang; CSa) 1%

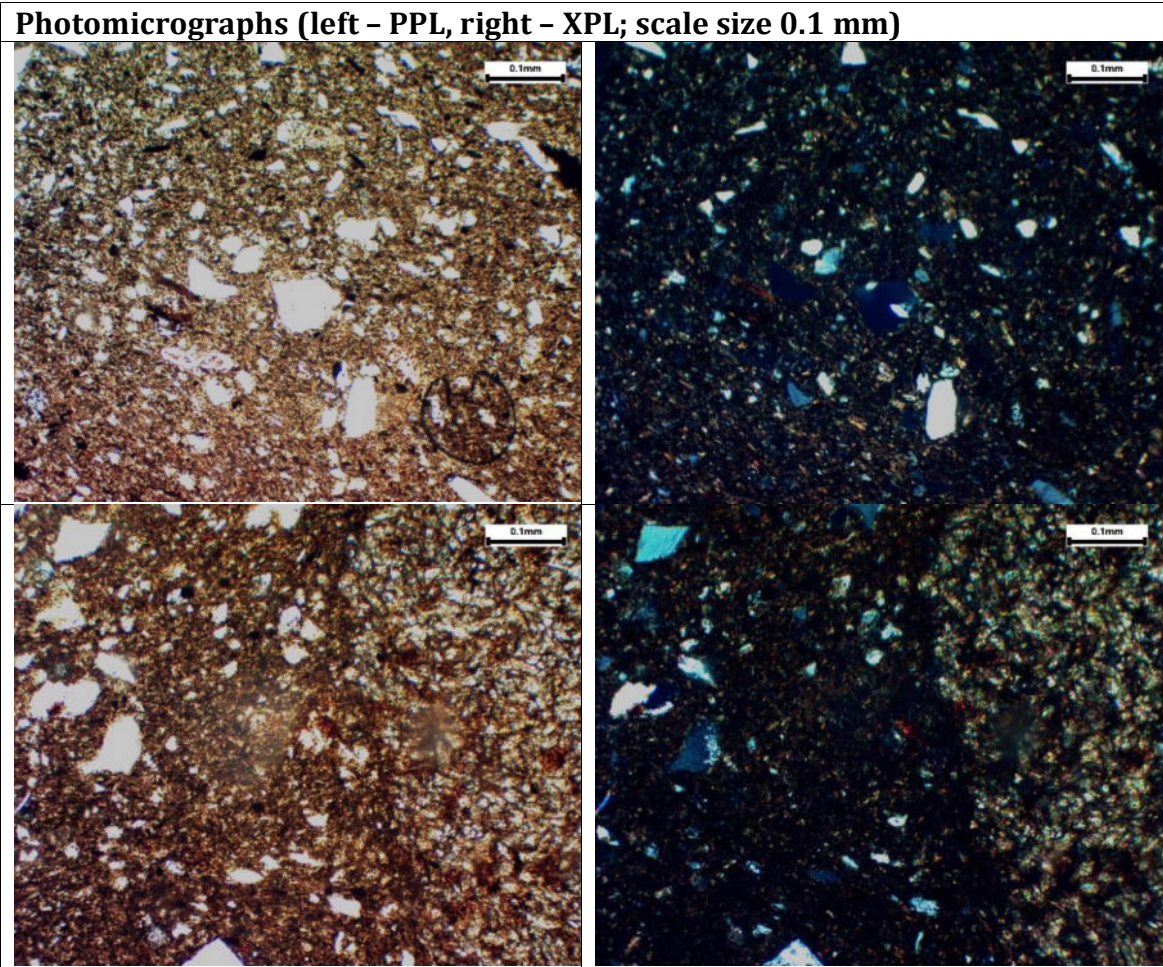
feldspar 1-5%

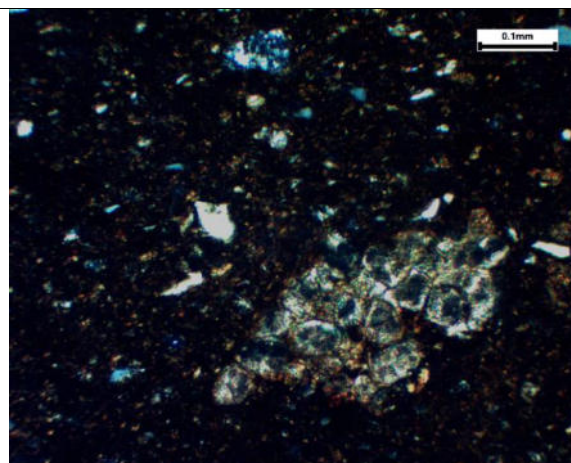
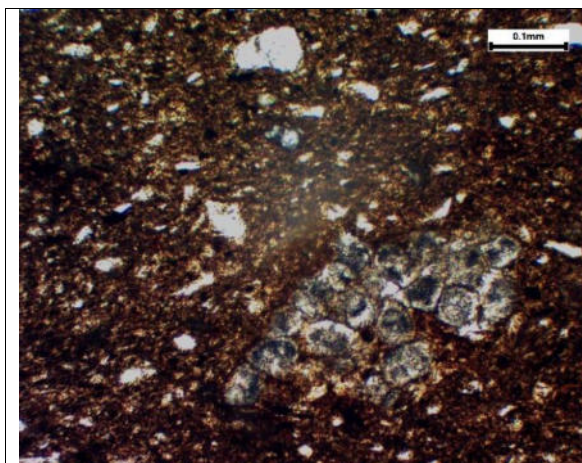
Matrix 77%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	moderate	active	brown to red brown/ golden grey to golden brown	FSa-MSa clay pellets, 1% of the matrix

Voids 3%

Type and size	Distinct characteristics
macro/meso vughs, vesicles	none





Sample code: CNP187 MFEA Museum Number: K.12003:895	Fabric group: 9; coarse and fine fabric combined Site: Luohantang				
Sherd photo	Fabric photo				
					
	Thin section scan 				
Description					
MACROSCOPIC: Body sherd; fired in oxidising atmosphere; upper half is polished and painted black, lower half has cross-cord impressions and appliqué; max. wall thickness 7.2 mm. MICROSCOPIC: Non-plastic inclusions 15-20% of the entire sherd <table border="0"> <tr> <td>Coarse fabric 20% inclusions</td><td>Fine fabric 15% inclusions</td></tr> <tr> <td> Coarse 45%: quartz (eq; s-rnd – rnd; CSa-FGr) 30% </td><td> Coarse 0% Fine 100%: </td></tr> </table>		Coarse fabric 20% inclusions	Fine fabric 15% inclusions	Coarse 45%: quartz (eq; s-rnd – rnd; CSa-FGr) 30%	Coarse 0% Fine 100%:
Coarse fabric 20% inclusions	Fine fabric 15% inclusions				
Coarse 45%: quartz (eq; s-rnd – rnd; CSa-FGr) 30%	Coarse 0% Fine 100%:				

- plagioclase feldspar (eq; rnd; CSa) 25%
- sedimentary rock fragments – siltstone, sandstone (eq; el; s-rnd; CSa) 20%
- metamorphic rock fragments – quartzite with iron oxide vein (eq; s-rnd; CSa) 20%
- granitic rock fragments – combination of quartz and plagioclase feldspar (eq; s-rnd; CSa) 5%
- mica 55%
- quartz 45%

Fine 55%:

- mica 55%
- quartz 45%

Matrix 75-80%

Homo-/heterogeneity	Sorting	Optical activity	Colour in PPL/ in XPL	Textural features/ comments
homogeneous	coarse fabric: poor fine fabric: well	moderate	brown/ golden brown	fine inclusions are of MSi size and smaller; coarse and fine fabrics have the same groundmass; possibly from the same vessel as CNP155; similar groundmass as in CNP181 fine fabric and fabric 1B; from the same vessel as CNP155?

Voids 5%

Type and size	Distinct characteristics
macro/ meso/ micro channels, vesicles, vughs	none

Photomicrographs (left – PPL, right – XPL; scale size 0.1 mm)

