



BEYOND ARCHAEOLOGY

AN ADVANCED APPROACH LINKING EAST TO WEST THROUGH SCIENCE
FIELD ARCHAEOLOGY
INTERACTIVE MUSEUM EXPERIENCES

SAMPLE NAME	SH4 – ZANMOCHI SITE (Shimane)
INCLUSIONS	
Relative abundance (%)	30%
Dimensions	<0.5 mm
Grain size distribution	Heterogeneous
Shape	Equant (elongated for biotite and amphibole)
Roundness	Sub-angular
Spacing	Single-spaced
Orientation/alignment	Weak (moderate for the elongated inclusions)
Mineralogical-petrographic composition (decreasing abundance)	<p>XXX: quartz, plagioclase</p> <p>XX: alkali feldspars</p> <p>X: biotite-like, green amphibole (less than biotite), opaque</p> <p>D: qz-biotite granitic rock, feldspar-biotite granitic rock, feldspar amphibole granitic rock, biotite amphibole feldspar metamorphic rock, amphibole-feldspar volcanic rock</p>
Argillaceous inclusions	Argillaceous rock (very rare)
<i>Chamotte</i> features	
Other	
CLAY MATRIX	
Relative abundance (%)	60%
Degree of heterogeneity	Highly
Size of each flake	0.2 – 0.1 mm
Microcrystalline calcite	ND
Microcrystalline opaques	present
Colour of matrix clay	Pale brown-dark brown-reddish brown
Dominant interference colour	First order yellow to orange
b-fabric	speckled



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GLASS (VITRIFIED PORTION)	
Frequency	Rare
Shape	Ring (with brownish material inside)
Colour	Colourless
VOIDS	
Relative abundance (%)	10%
Shape	vughs
Size	Meso
Degree of alignment of e.v.	
Post depositional alterations in voids (secondary calcite)	
ACQUIRED IMAGES	<p>SH4_general_2x_PPL&XPL → general view SH4_general-2_2x_PPL&XPL → general view SH4_detail_4x_PPL&XPL To recover the ring shape felsic rim for future analyses: SH4_felsic rim_2x_PPL SH4_felsic rim_10x_PPL SH4_felsic rim_40x_PPL</p>
NOTES	<p>Biotite inclusion in quartz, biotite altered in chlorite. Different kind of aggregate minerals, mainly mafic minerals → Amphibole biotite → granodiorite Metamorphic rock fragment rich in biotite → pelitic sediments Many lithic fragment with different mineralogy, some inclusion are sub-rounded Presence of felsic formed with high temperature, with a reaction ring In the matrix are present small biotite crystals, that could be provide a K rich bulk composition</p>



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