

## Sedimentary Fabric Group

(Samples MC 2013/29, 71, 73, 74, 75, 177) (Figs. 4a, 4b)

### Inclusions

30%. Sa-sr. < 1.5 mm. Single- to double-spaced. Moderately to well-sorted. Unimodal grain size distribution.

#### Coarse Fraction

15-20%. Size = 1.5 mm

*Common:* Monocrystalline Quartz; eq. sa-sr. < 1.5-0.5 mm. Some show undulose extinction. There are two sizes: (1) < 1.5 mm (sample MC 2013/177), and (2) < 0.5 mm (samples MC 2013/71, 73, 75)

*Common-Few:* Clinopyroxene; eq. sa-sr. < 1.5-0.5 mm. Second order birefringence, cleavage and high relief. Augite. There are two sizes: (1) < 1.5 mm (sample MC 2013/177), and (2) < 0.5 mm (samples MC 2013/71, 73, 75).

*Common-Few:* Opaque inclusions; sr-r. < 1 mm. Deep brown, finely dispersed throughout the matrix. Sometimes with shrink rim

*Few-Absent:* Chert; el. sr. < 1.5 mm (sample MC 2013/74)

*Few-Absent:* Sedimentary rock inclusion; sa-sr. < 6-7 mm. Sand-sized quartz and chert inclusions embedded in a ferruginous matrix. Quartz may show evidence for undulose extinction. Ferruginous sandstone (sample MC 2013/75, 177).

*Few-Absent:* Calcite; el. r. < 1 mm. Occurs as pore-fill. Micrite (samples MC 2013/73, 74, 75, 177).

*Absent-Rare:* Microfossils < 1 mm (sample MC 2013/177)

#### Fine Fraction

80-85%. Size: < 1.5 mm

*Common:* Quartz

*Common:* Augite

*Common:* Opaque inclusions

### Matrix

60-65%. Yellowish-grey in XP, and light- grey in PPL. Different firing horizons (samples MC 2013/71, 74), and differences in optical activity: moderate to high optical activity (samples MC 2013/71, 177), and low optical activity (samples MC 2013/29, 73, 74, 75). Bloating pores have been identified in some samples (samples MC 2013/73, 74).

### Voids

5-10%. Common micro-vesicles (samples MC 2013/75, 177), few meso-vughs and vesicles (samples MC 2013/73, 177). No alignment to margins (samples MC 2013/71, 74, 75), or preferred

alignment to the margins (sample MC 2013/177). Micrite is deposited on the interior of voids (samples MC 2013/73, 74, 75, 177).

### Comments

This fabric is characterised by augite and quartz inclusions, set in a light-coloured clay. Two samples present important differences with the other members of the group because of its numerous sand-sized (up to 4 mm) augite inclusions (samples MC 2013/29, 74). Therefore, they might comprise a tempered variant (or sub-fabric) of the main fabric group. All samples of the main and sub-fabric were produced with the same sedimentary clay, in which microfossils can be identified. Micrite has also been deposited in voids. The samples were fired in an oxidising atmosphere, and at different temperatures, given the variability in optical activity. Some samples are characterised by bloating pores in the matrix, which is suggestive of over-firing (samples MC 2013/73, 74). This fabric occurs at two pottery production sites on the coast, comprising site 11232 (samples MC 2013/71, 73, 74, 75; fig. 4a) and the villa site Le Grottacce (sample MC 2013/177; fig. 4b). The vessels from site 11232 comprise tiles, cover tiles and storage jars, whereas the sample from the villa site comprises an amphora. There are two main differences between the local pottery from site 11232 and the villa site. First, the size of the quartz and augite inclusions in the samples from site 11232 are comparatively smaller. Second, there are differences in the forming method of the waster products from both sites. More specifically, the samples from site 11232 comprise ceramic building material and dolia, whereas the sample from the villa site comprises an amphora. In spite of these differences, it would appear that potters at the two sites used similar clay deposits, which are light-coloured and comprise quartz and augite inclusions, and in which occasionally microfossils can be identified. A tile (most likely distributed from site 11232) was found on the Via Appia (MC 2013/29).

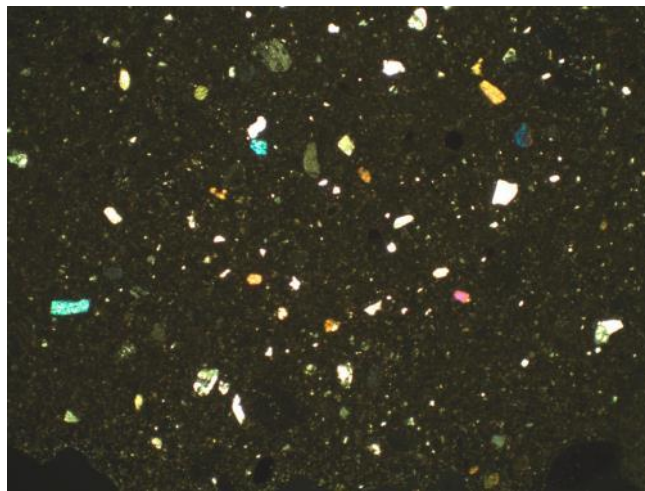


Fig. 4a: Sedimentary Fabric from site 112323 in XP. Width of image = 5.8 mm.

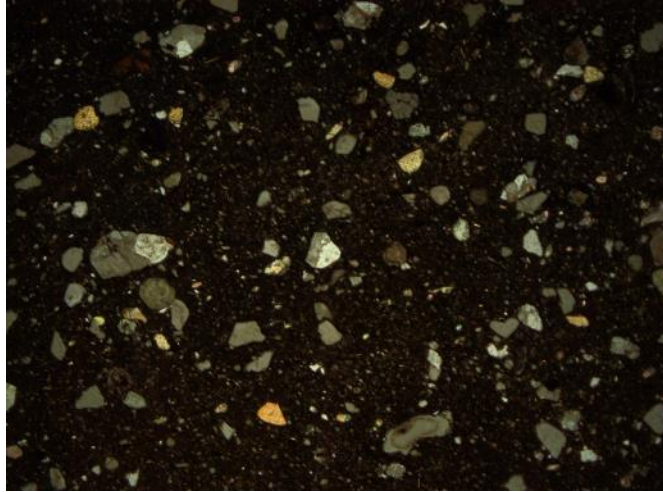


Fig. 4: Sedimentary Fabric from the villa Le Grottacce in XP. Width of image = 5.8 mm.