Sample ID and provenance

Sample ID: SP32_FZF

Lithology: Chert

Collection: LusoLit

Outcrop: Foz dos fornos

Unit/facies: Lower Jurassic

Thinsection: Yes

Macroscopic description

- COLOR

The color distribution is Single. The colors are Light yellowish brown (2.5Y 6/3), Gray (2.5Y 5/1) and Pale yellow (2.5Y 8/2).

- FABRIC

The luster ranges from Medium to Dull and the translucency is Opaque. The feel is Smooth and the grain is Fine. The distribution is Even. The patterns are Spots (1-49%), which are Spotted and Speckling, with an Uneven distribution.

- INCLUSIONS AND FOSSIL CONTENT

-

- CORTEX

The cortex is from an Outcrop, Thin to Medium, with a Sharp transition. The nodules are small and encased in the parent rock. When tested with dilute hydrochloric acid (HCL 10%), the reaction was weak. The parent rock may be a dolomite or a dolomitic limestone.

- QUALITY

The fracture is Conchoidal and the surface is Homogeneous. The knapping quality is Good.

- OBSERVATION

The sample is patinated acquiring a dark, yellowish or reddish color.

Outcrop description

- OUTCROP CHARACTERISTICS

  Type of outcrop: Primary

  Visibility: Good

  Accessibility: Easy

  State of site: Good

- CHERT NODULES/BEDS DESCRIPTION

  Type of chert nodule: Nodule

  Sample variability: Variable

  Frequency: Abundant

  Nodule description: The nodules vary from irregular to oval, from 4 to 8cm wide.

- SHORT DESCRIPTION

  The outcrop is located on the cliff with moderate access. The nodules are abundant and easily visible. These are either oval or irregular, from 4 to 8cm in width. The outcrops is in good state since it seems to be nearly undisturbed. Rare loose chunks of chert can be found around, probably due to the inclination of the cliff. The parent rock is hard, making the removal of the chert nodules difficult.

Petrography analysis form

❖ TEXTURAL COMPOSITION

Texture: Wackestone

Microstructure: Massive

❖ COMPOSITION

ORTHOCHEM	Type	%	Description
MiC quartz (gr)	SE	95	-
Dolomite	SE	5	-

ALLOCHEM	Freq	Description
Oxides	Common	-
Peloids	Uncommon	-

BIOCLASTS	Freq	Description
Ghosts	Common	-

❖ OTHER TEXTURAL CHARACTERISTICS

Total porosity (%): 5

Porosity type: Vuggy

Other sedimentary structures: -

Observations

- Ghosts seem to be monospecific.

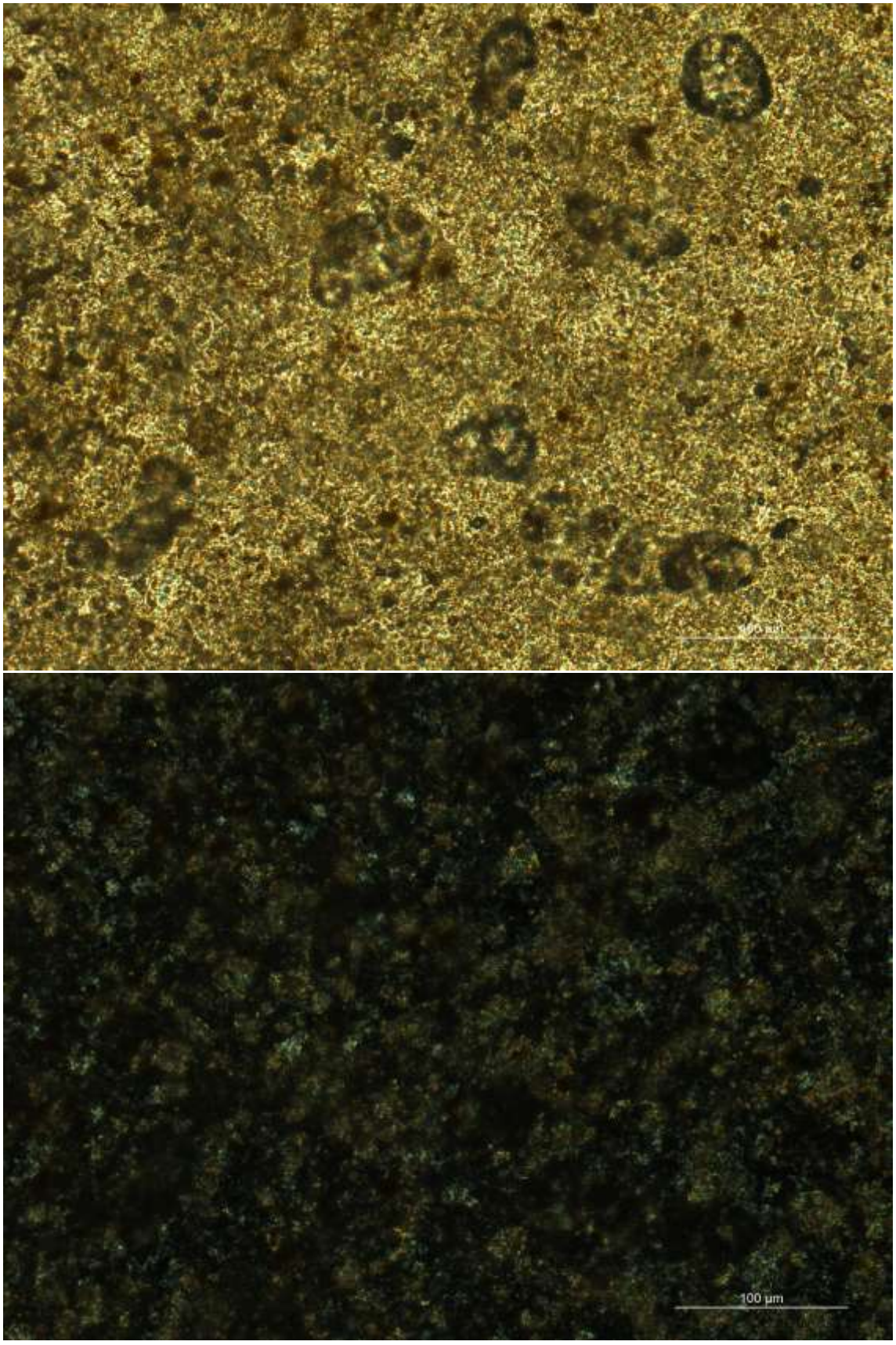
Analysis information

- **ANALYST:** JB
- **DATE:** 02.23.2022
- **EQUIPMENT:** Leica DM2500 P

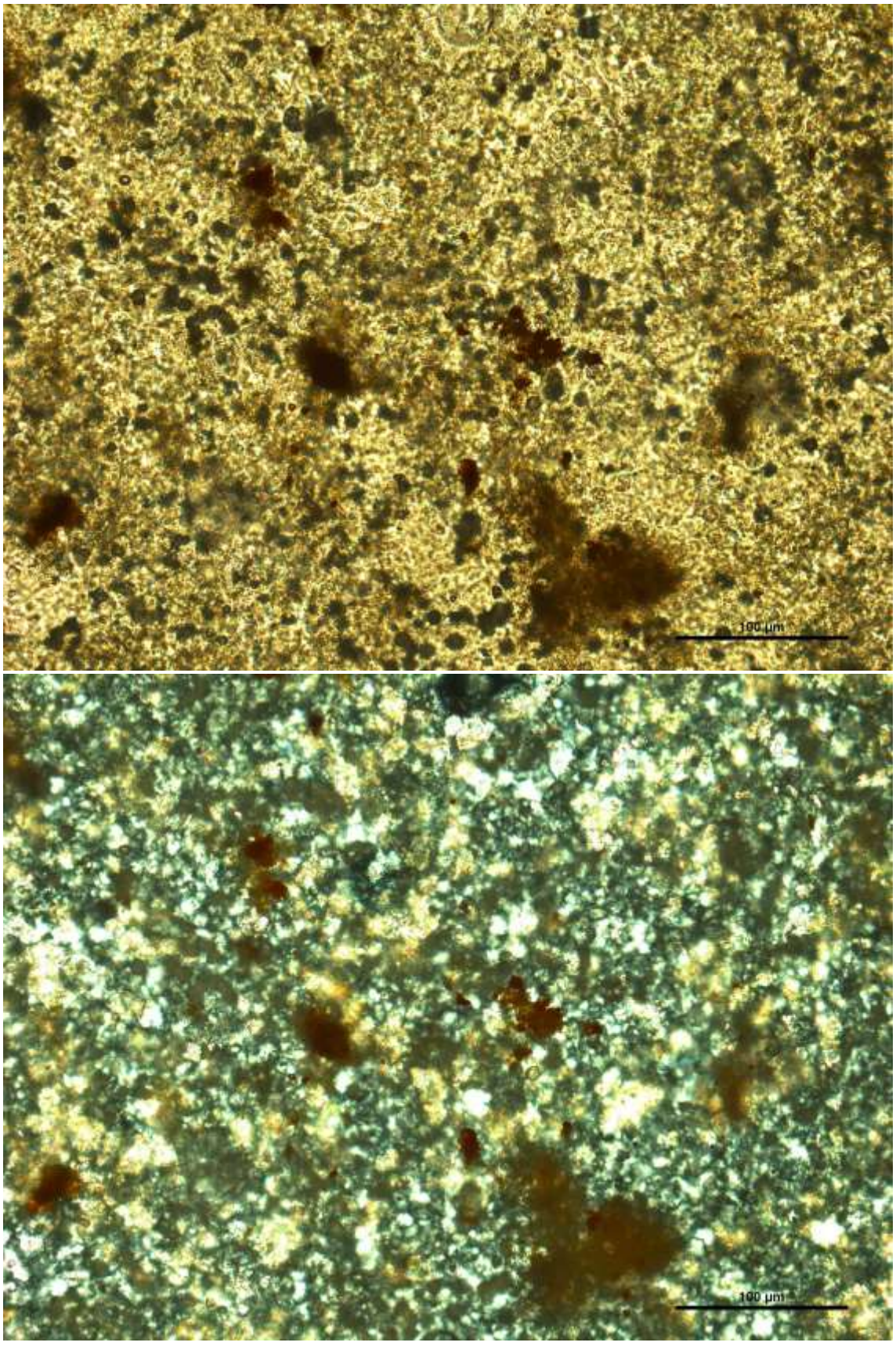
Photos

Photo ID	Aug.	Description
SP32_001	10x	Dolomite rhomboid crystals and circular fossils which are possibly radiolarians or spheres.
SP32_002	20x	Peloids, dolomite and possible sphere.

Petrography photos

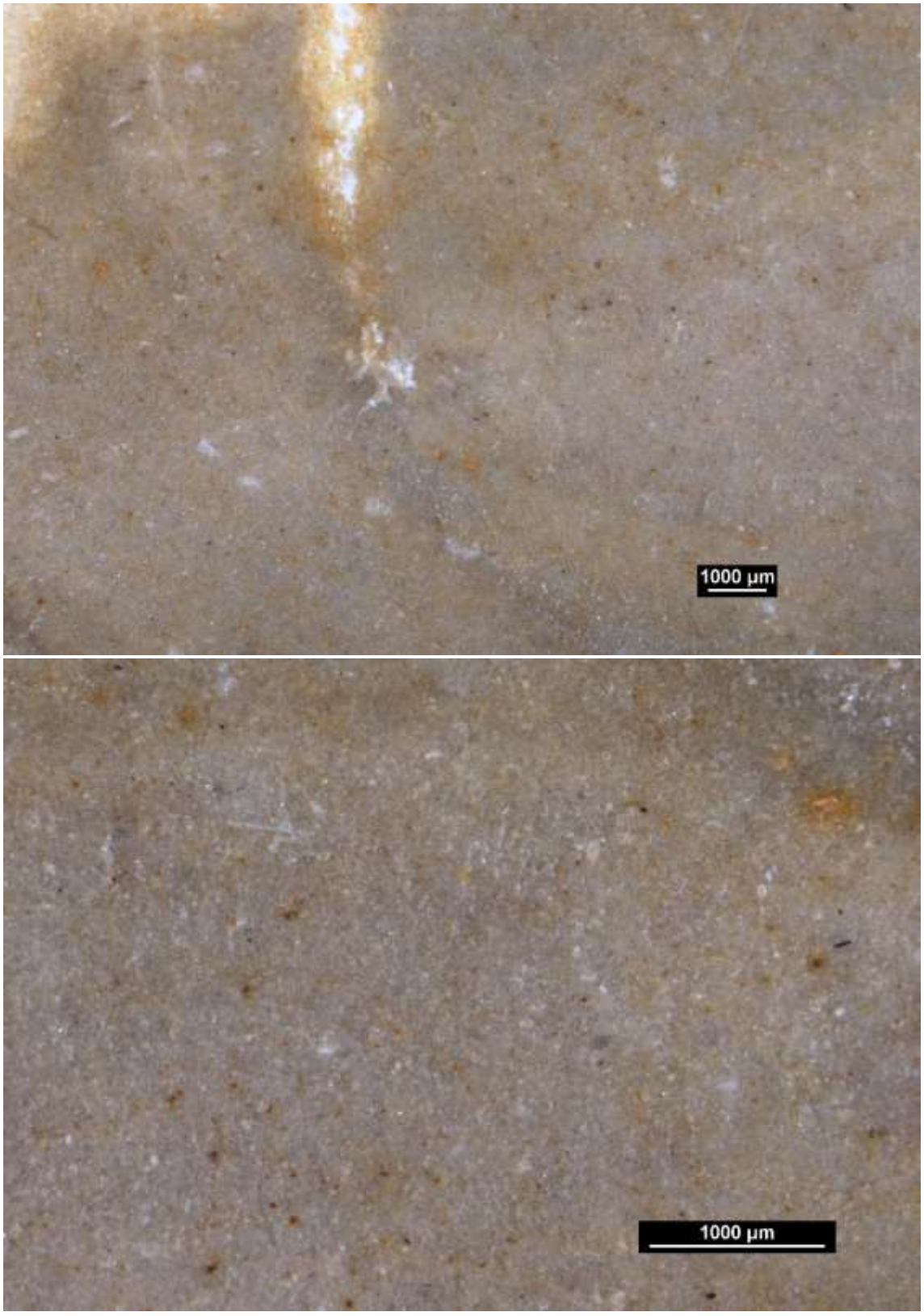


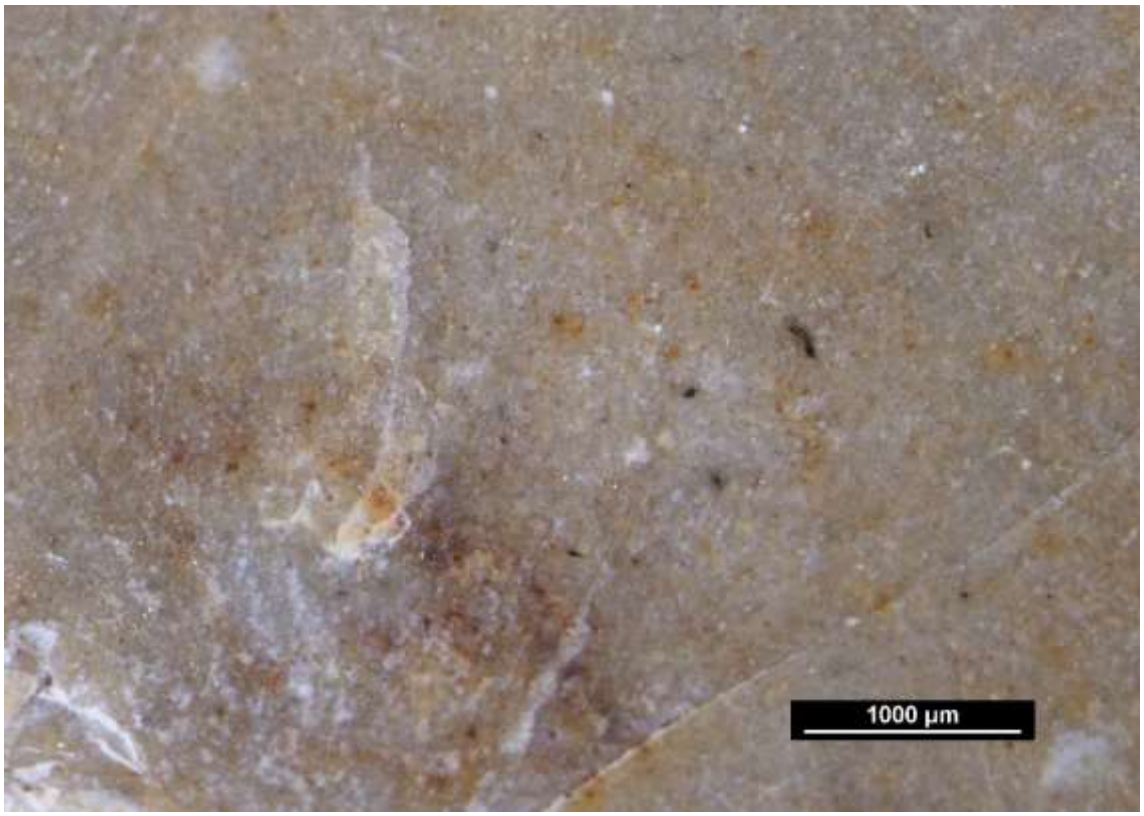
SP32_FZF_001 (PPL and XPL)

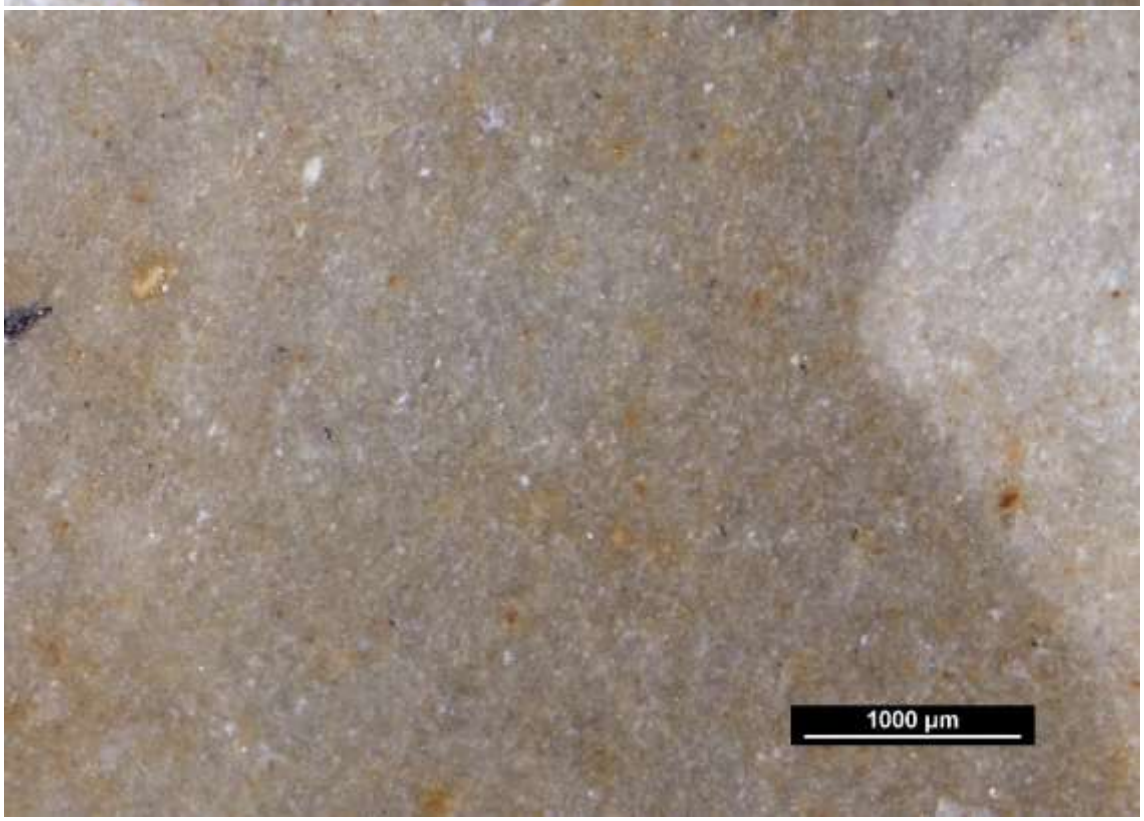


SP32_FZF_002 (PPL and XPL)

Macroscopic photos



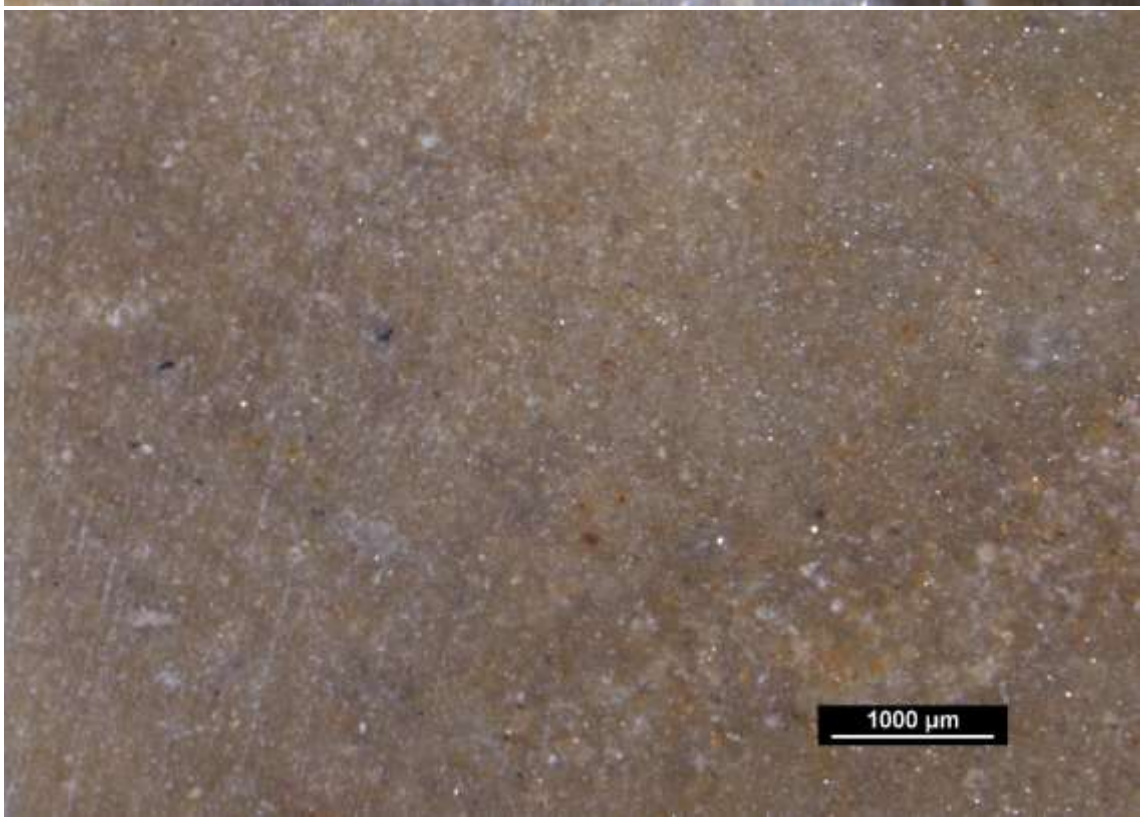

1000 µm

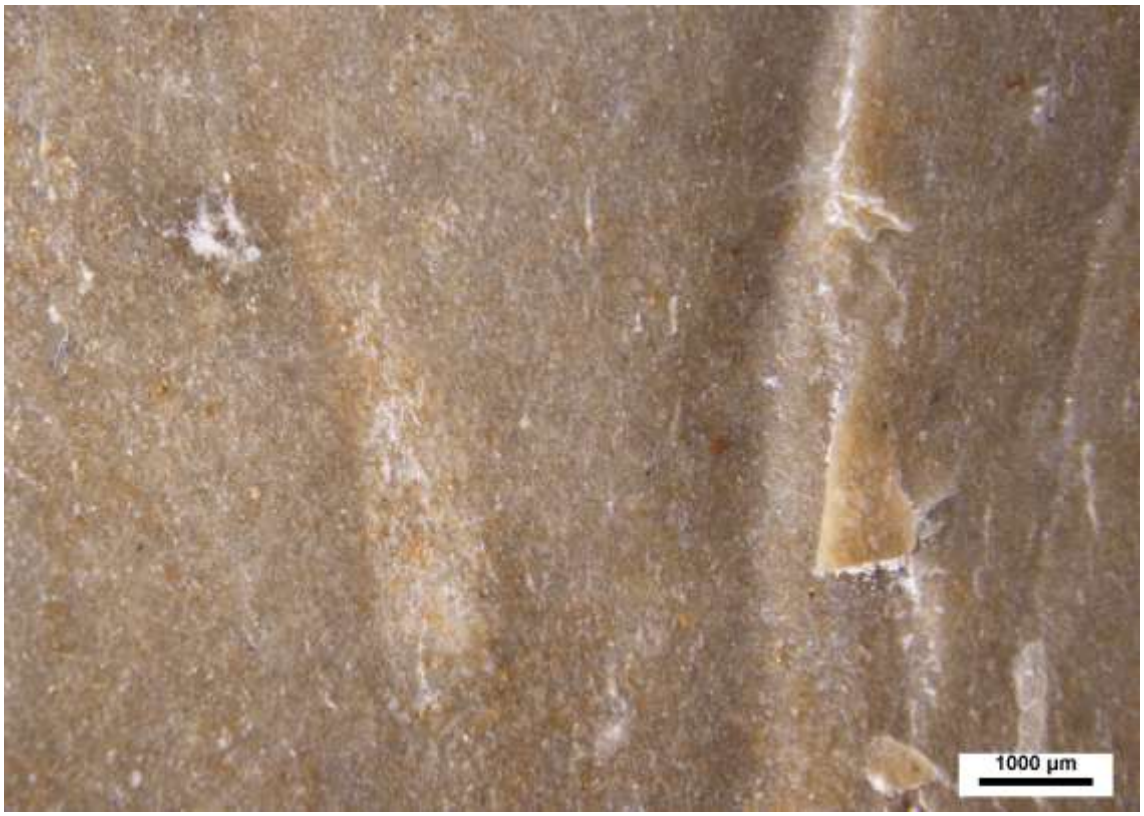

1000 µm


1000 µm


1000 µm


1000 µm


1000 µm


1000 µm


cm 1 2 3 4 5


cm
1
2
3
4
5