Untitled

Joana Belmiro

2022-10-01

Sample ID and provenance

Sample ID: SP6_CSV

Lithology: Chert

Collection: LusoLit

Outcrop: Cabo S. Vicente

Unit/facies: Lower Jurassic

Macroscopic description

Color

The color distribution is Single and the color is Light gray (2.5Y 7/2).

Fabric

The luster is Dull and the translucency is Opaque. The feel is Semi-smooth to Rough and the grain is fine. The distribution of the fabric is Even.

Inclusions and fossil content

Cortex

The cortex is Outcrop type with a Gradual transition.

Quality

The fracture is Conchoidal with Fractures. The knapping quality is Medium.

Observations

Petrography analysis form

Textural classification

Texture Mudstone

Microstructure Massive

Composition

Orthochem	Type	%	Description
MiC quartz (gr)	SE	90	
Dolomite	SE	10	Dolomite crystals have different sizes.

Allochem	Freq	Description
Oxides	Uncommon	

Bioclasts	Freq	Description
Ghosts	Uncommon	
Echinoderm	Uncommon	

Other textural characteristics

Porosity

Total porosity (%): 5

Porosity: Vuggy

Photos

Image ID	Aug.	Description
SP6_001	10x	General view of oxides and a possible Echinoderm spine.
SP6_002	10x	Ghosts with quartz filling.
SP6_003	10x	Limit between chert and dolomitic limestone (cortex.)
SP6_004	10x	Possible Echinoderm spine.
SP6_005	20x	Detail of rhomboid dolomite crystals close to the edge of the sample.

Observations

- Ghosts are filled with microcrystalline quartz and poorly preserved.
- Dolomite is visible in the chert area closer to the cortex area.

Analysis information

- Analyst: JB
- Date: 02.23.2022
- Equipment: Leica DM2500 P