

Sample ID and provenance

Sample ID: SP3_CSV

Outcrop: Cabo S. Vicente

Lithology: Chert

Unit/facies: Lower Jurassic

Collection: LusoLit

Thinsection: No

Macroscopic description

❖ COLOR

The color distribution is Mix diffuse. The colors are Light olive brown (2.5Y 5/3), Gray (2.5Y 5/1) and Weak red (2.5YR 5/2).

❖ FABRIC

The luster ranges between Medium and Dull and the translucency is Sub-translucent, with light passing through at 1.6 mm thickness. The feel is Semi-smooth and the grain is fine. The distribution is Uneven with a Gradual variation. The patterns are Shaded and Spots (50-99%), which are Marbled mottling with an Uneven distribution.

❖ INCLUSIONS AND FOSSIL CONTENT

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❖ CORTEX

Cortex is Outcrop type, with a Gradual transition. The nodules are small and angular, within the parent rock. The parent rock shows various degrees of dolomitization, with areas where the nodules of chert are not clearly formed but the dolomite seems somewhat silicified, making it that the thickness of the cortex is variable, and the transition is gradual. The chert characteristics are limited to the fully silicified nodules within the parent rock.

When tested with dilute hydrochloric acid (HCL 10%), the reaction was weak. The parent rock is a dolomite or a dolomitic limestone.

❖ **QUALITY**

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

❖ **OBSERVATION**

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Outcrop description

❖ OUTCROP CHARACTERISTICS

Type of outcrop: Primary

Visibility: Reasonable

Accessibility: Moderate

State of site: Good

❖ CHERT NODULES/BEDS DESCRIPTION

Type of chert nodule: Nodule/Bedded

Sample variability: Homogeneous

Frequency: Sporadic

Nodule description: The chert appears as irregular nodules or as bedded cherts. They seem to be brittle and filled with fractures, which make the chert difficult to remove without breaking.

❖ SHORT DESCRIPTION

The chert can be found in sections within the cliff, from the top to the bottom (although the bottom cherts are not accessible). The nodules and beds are sporadic, and chert chunks can also be found near the outcrop.

Macroscopic photos







