

Sample ID and provenance

Sample ID: SP65_MALH

Outcrop: Malhão

Lithology: Chert

Unit/facies: Middle Jurassic

Collection: LusoLit

Thinsection: No

Macroscopic description

❖ COLOR

The color distribution is Mix sharp. The colors are Light gray (10YR 7/2), Gray (10YR 6/1) and Very pale brown (10YR 8/2).

❖ FABRIC

The luster is Dull and the translucency ranges from Opaque to Sub-translucent, depending on the fabric characteristics. The feel is Semi-smooth and the grain is Fine. The structure is Uneven with an Abrupt variation. The patterns are Spots (1-49%), which are Spotted, Splotched and Speckling, with an Uneven distribution. There is a sharp and irregular transition between the gray smoother chert and the white chert.

❖ INCLUSIONS AND FOSSIL CONTENT

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❖ CORTEX

The cortex is from an Outcrop, but rolled. The thickness is different depending on the area and is difficult to precise due to the Gradual transition. Bellow the orange, outer surface of the cortex, the altered surface is white and mixes with the white chert gradually. There are several inclusions in the cortex area, by chert splotches or dolomite (?) spots. When tested with dilute hydrochloric acid (HCL 10%), the reaction was Strong on the parent rock, and it may be a Limestone. On the alteration cortex, between the chert and the parent rock, there was no reaction.

❖ QUALITY

The fracture type is Conchoidal and the surface is Homogeneous with the presence of one Fracture. The knapping quality is Good.

❖ **OBSERVATION**

The knapping quality of nodules seem to vary, depending on the area of the nodule. The nodules are small to medium and not all of the nodule is suitable for knapping. It could need testing.

Outcrop description

❖ OUTCROP CHARACTERISTICS

Type of outcrop: Primary

Visibility: Good

Accessibility: Easy

State of site: Bad

❖ CHERT NODULES/BEDS DESCRIPTION

Type of chert nodule: Nodule

Sample variability: Homogeneous

Frequency: Sporadic

Nodule description: Nodules are irregular, around 5cm width.

❖ SHORT DESCRIPTION

The nodules can be found in parent rock chunks, displaced from the main parent rock but near them. The outcrop is in dismantlement, within unoccupied and uncultivated terrains. The nodules are sporadic, irregular and around 5cm.

Macroscopic photos









