

## Sample ID and provenance

Sample ID: SP48\_CdC

Outcrop: Casal da Colina

Lithology: Chert

Unit/facies: Middle Jurassic

Collection: LusoLit

Thinsection: No

## Macroscopic description

### ❖ COLOR

Color distribution is Mix diffuse. Main colors are light gray (10YR 7/1), reddish brown (2.5YR 4/3) and pinkish white (2.5YR 8/2).

### ❖ FABRIC

Luster is Shiny to Medium and it is Opaque. The feel is Smooth to Semi-smooth and the grain is Fine. The structure is Uneven and with a Gradual variation. Patterns are Shaded and Spots. The spots are Splotched, Speckling and Flecks. The spots have an Uneven distribution and are present in 50-99% of the sample.

### ❖ INCLUSIONS AND FOSSIL CONTENT

Oxide grains are present but uncommon, small and scattered through the sample.

Fossils are common, but poorly preserved and can barely be distinguished from the chert. They are tiny and white, without any recognizable shape or structure. In the darker areas of the chert, they seem to be monotypic, with circular shapes. They are visible at naked eye as Speckling.

### ❖ CORTEX

The cortex is of Outcrop type and is rolled. It is Thin with a Gradual transition. When tested with dilute hydrochloric acid (HCL 10%), the reaction was nonexistent, hinting at the absence of carbonate minerals in the parent rock.

### ❖ QUALITY

The fracture is Conchoidal and there are Fractures and Cleavage plains. The knapping quality is Medium.

## ❖ OBSERVATION

The nodule is very altered and the cortex itself seems to be altered, congruent with the secondary deposition (slope) in which the nodule was found. It is very small and the knapping quality might differ with larger nodules.

The sample is highly patinated, with yellow colorations, but in some areas with a thick, red/brown patina.

## Outcrop description

### ❖ OUTCROP CHARACTERISTICS

**Type of outcrop:** Secondary

**Visibility:** Bad

**Accessibility:** Moderate

**State of site:** Bad

### ❖ CHERT NODULES/BEDS DESCRIPTION

**Type of chert nodule:** Nodule

**Sample variability:** Variable

**Frequency:** Rare

**Nodule description:** Broken and small, with the largest piece being 3cm wide.

### ❖ SHORT DESCRIPTION

The chert is rare in this area and appears as small broken pieces. The alteration on the chert is concurrent with the transport possibly from a slope through a highly vegetated area.

Macroscopic photos









