Mogánite

\( \text{SiO}_2 \cdot n\text{H}_2\text{O} \)

**Crystal Data:** Monoclinic. Point Group: \(2/m\). Microcrystalline fibrous. Twinning: Frequently observed with (110) as plane of intergrowth.

**Physical Properties:** Cleavage: None. Tenacity: Brittle. Fracture: n.d. Hardness = 6
\[ D(\text{meas.}) = 2.52 \text{ to } 2.58 \quad D(\text{calc.}) = 2.55 \]

**Optical Properties:** Translucent. Color: Gray or brownish. Streak: n.d. Luster: Vitreous. Optical Class: \( n = 1.524 \text{ to } 1.531 \)

**Cell Data:** Space Group: \(I12/a1\). \( a = 8.758(2) \quad b = 4.876(1) \quad c = 10.715(2) \quad \beta = 90.08(3)^\circ \quad Z = 12 \)

**X-ray Powder Pattern:** Mogán, Grand Canary Island, Spain.
3.33 (100), 3.39 (50), 4.45 (13), 1.83 (13), 3.11 (11), 1.369 (11), 2.29 (9)

**Chemistry:** Nearly pure silica, with water contents of \( \sim 2-3 \text{ wt\%} \).

**Occurrence:** A common component of agate, chert, flint.

**Association:** Quartz, chalcedony, opal.

**Distribution:** From Mogán, Grand Canary Island, Spain [TL].

**Name:** For Mogán, Grand Canary Island, Spain.

**Type Material:** n.d.