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.


D(meas.) = 2.52 to 2.58 \hspace{1cm} D(calc.) = 2.55


*Optical Class:* \( n = 1.524 \) to 1.531

**Cell Data:** Space Group: \( \text{I}1\text{I}/\text{a}1 \). \( a = 8.758(2) \) \hspace{1cm} \( b = 4.876(1) \) \hspace{1cm} \( c = 10.715(2) \) \hspace{1cm} \( \beta = 90.08(3)^{\circ} \) \hspace{1cm} \( Z = 12 \)

**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 ~2-3 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.