SILLIMANITE

Meaning: Sillimanite is a high-temperature silicate mineral that serves as an indicator of metamorphic conditions in rocks.

1. Sillimanite is often found in high-grade metamorphic rocks and is a valuable indicator of temperature and pressure conditions during metamorphism.

2. Geologists frequently use sillimanite to determine the metamorphic history of a rock sample.

3. The distinct fibrous structure of sillimanite can be observed in thin sections under a polarizing microscope.

4. Due to its high melting point, sillimanite is also used in the production of high-temperature ceramics.

5. The presence of sillimanite along with kyanite and andalusite in a rock sample can suggest a specific metamorphic environment.

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