



Anorthite

CaAl₂Si₂O₈(An₉₀₋₁₀₀) (Feldspar Group) (see also Plagioclase) Crystallography:

Triclinic; 1. Crystals usually prismatic parallel to c-axis; twinning as in albite. Commonly massive, cleavable, with granular or coarse lamellar structure.

Physical Properties:

Cleavage: {001} perfect, {010} good. Fracture uneven to conchoidal; brittle. Hardness: 6.0.

Specific Gravity: 2.76.

Luster: Vitreous to pearly.

Color: Colorless, white gray; sometimes reddish. Transparent to translucent. **Streak:** White.

Composition/Features:

Anorthite is the calcium end-member of a feldspar solid solution series from albite (Na end-member) to anorthite. It is characterized by twinning striations on basal cleavages and its relative hardness. Fuses at 5 to a colorless glass. Possesses higher specific gravity and greater solubility in HCl than other group members. Accurate identification is done by chemical, X-ray, or optical tests.

Occurrence/Use:

Rarer than the more sodic plagioclases, anorthite occurs in basic igneous rocks rich in dark minerals and in granular limestones of contact metamorphic deposits.



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