

Axinite group - $\text{Ca}_2\text{Fe}^{2+}\text{Al}_2\text{BSi}_4\text{O}_{15}\text{OH}$

Hardness = 6.5 - 7. Cleavage: Distinct/good. Sharp edges easily chipped. Scarcely attacked if at all by acids. Use concentrated HCl to remove calcite. Resists NH_4HF_2 . Accompanying acicular mineral is likely prehnite which cannot be removed by chemical methods. Likewise impossible to remove chlorite by chemical methods.

A group of minerals, Data given for axinite-(Fe). Other group members expected to be similar.

References

Mindat: <https://www.mindat.org/min-29239.html>

Handbook of Mineralogy: <https://www.handbookofmineralogy.org/pdfs/ferroaxinite.pdf>

Hardinger, S. (2025) Mineral Specimen Cleaning and Development for the Amateur, 339 p.

Sinkankas, J. (1972) Gemstone & Mineral Data Book, 346 p. Winchester Press, New York.