

Apophyllite group - $\text{KCa}_4(\text{Si}_8\text{O}_{20})(\text{F},\text{OH})\cdot 8\text{H}_2\text{O}$

Hardness = 4.5 - 5. Cleavage: Perfect. Soft; easily cleaved. Quickly attacked by HCl causing faces to become dull with gel formation on prolonged exposure. Attacked by most other acids. Becomes frosted and 'melted' after 24 hours with NH_4HF_2 . Tolerates sonication.

A group of related zeolite minerals. Data given is for fluorapophyllite-(K), the most common group member.

References

Mindat: <https://www.mindat.org/min-1573.html>

Handbook of Mineralogy: <https://www.handbookofmineralogy.org/pdfs/fluorapophyllite.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.