

Zinnwaldite - $\text{KLiFe}^{2+}\text{Al}(\text{AlSi}_3)\text{O}_{10}(\text{F},\text{OH})_2$

Hardness: 2.5 - 4. Cleavage: Perfect. Micaceous; easily exfoliated. Attacked by H_3PO_4 , HNO_3 , HCl or H_2SO_4 . Treat like other Micas.

References

Mindat: <https://www.mindat.org/min-4419.html>

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

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

Rohner, T. (2000) Properly clean minerals online cleaning book.

www.strahlen.org/stepbystep/mineralien-reinigung2.pdf. In German.

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