

Ludlamite - $\text{Fe}^{2+}_3(\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}$

Hardness: 3.5. Cleavage: Perfect. Fragile, brittle; easily cleaved. Brief sonication tolerated. Use only mild detergents. Tolerates Jacquard Hydro. Attacked by H_3PO_4 , HNO_3 , HCl or H_2SO_4 .

References

Mindat: <https://www.mindat.org/min-2452.html>

Handbook of Mineralogy: <http://www.handbookofmineralogy.org/pdfs/ludlamite.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.