

Zippeite - $\text{K}_3(\text{UO}_2)_4(\text{SO}_4)_2\text{O}_3(\text{OH}) \cdot 3\text{H}_2\text{O}$

Hardness: 2. Cleavage: Perfect. Radioactive. Often powdery and friable. Insoluble in water. Soluble in dilute acids.

References

Mindat: <https://www.mindat.org/min-4420.html>

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