

Brookite - TiO₂

Hardness = 5.5 - 6. Cleavage: Poor/indistinct. Very slightly attacked by H₂SO₄ otherwise excellent chemical resistance. Tolerates Iron OUT/EDTA and hot oxalic acid. Pure TiO₂ is white; brown coloration in brookite is due to iron impurities which cannot be removed short of destroying the specimen. Stable to NH₄HF₂.

References

Mindat: <https://www.mindat.org/min-787.html>

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