

Bixbyite group - $\text{Mn}^{3+}_2\text{O}_3$

Hardness = 6 - 6.5. Cleavage: Imperfect/fair. Slightly soluble in hot concentrated HCl otherwise unaffected by acids.

A series of minerals in which iron may substitute for manganese. Behavior towards mechanical and chemical treatments are expected to be similar. Data given for the manganese end member.

References

Mindat: <https://www.mindat.org/min-691.html>

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

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