Freboldite

Crystal Data: Hexagonal. Point Group: $6/m\ 2/m\ 2/m$. Massive; as embedded grains.

Physical Properties: Hardness = 6, much softer than trogtalite and hastite. VHN = n.d. D(meas.) = n.d. D(calc.) = 7.70


Cell Data: Space Group: $P6_3/mmc$. $a = 3.61\ c = 5.28\ Z = 2$

X-ray Powder Pattern: Steinbruch, Germany. 2.05 (100), 1.066 (100), 0.963 (100), 2.4 (50), 1.71 (50), 1.08 (50), 0.992 (50)

Chemistry: Composition established by analogy to synthetic material.

Mineral Group: Nickeline group.

Occurrence: In dolostone veinlets (Steinbruch, Germany).

Association: Clausthalite, nickeline, guanajuatite, hastite, trogtalite, bornhardtite, chalcopyrite, millerite, sphalerite, hematite.

Distribution: In Germany, in the Harz Mountains, from the Trogtal quarry, Steinbruch [TL], and at Rote Berg, St. Andreasberg; also from Hartenstein, Saxony. In the Pinky Fault uranium deposit, Saskatchewan, Canada. At Temple Mountain, Emery Co., Utah, USA.

Name: In honor of Professor Georg Frebold (1891–?) of Hannover, Germany.

Type Material: n.d.


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