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Crystal Data: Orthorhombic. Point Group: $2/m \ 2/m \ 2/m$. As equidimensional and rarer bladelike grains isolated in altaite, and as irregular rims a few μ m thick on pyrrhotite and chalcopyrite in contact with altaite. Twinning: In polished section twinning commonly observed perpendicular to elongation axis of the laths.

Physical Properties: Hardness = n.d. VHN = 383, 404 (25 g load). D(meas.) = n.d. D(calc.) = 8.00

Cell Data: Space Group: Pnnm (synthetic). a = 5.3294(6) b = 6.3223(8) c = 3.9080(6) Z = 2

X-ray Powder Pattern: Mattagami Lake mine, Canada. 2.805 (10), 2.703 (8), 2.066 (6), 1.843 (4), 3.31 (3), 1.583 (3), 1.514 (2)

Chemistry:

	(1)	(2)
Co	10.3	18.76
Fe	6.7	
Te	82.4	81.24
Total	99.4	100.00

(1) Mattagami Lake mine, Canada; by electron microprobe, average of analyses of three grain sizes, corresponding to $(\text{Co}_{0.54}\text{Fe}_{0.37})_{\Sigma=0.91}\text{Te}_{2.00}$. (2) CoTe₂.

Polymorphism & Series: Forms a series with frohbergite.

Mineral Group: Marcasite group.

Occurrence: In a small telluride zone in a massive zinc-rich stratiform deposit in Archaen volcanics (Mattagami Lake mine, Canada).

Association: Frohbergite, altaite, pyrrhotite, chalcopyrite, magnetite, talc, chlorite (Mattagami Lake mine, Canada).

Distribution: From the Mattagami Lake mine, near Matagami, Quebec, Canada [TL]. At the Zhena-Tyube deposit, Kazakhstan. From Fe-Co-Au-U deposits in the Kuusamo schist belt, northeastern Finland.

Name: For its occurrence at Mattagami Lake, Canada.

Type Material: Canadian Geological Survey, Ottawa; Royal Ontario Museum, Toronto, Canada, M31956.

References: FeTe₂, and CoTe₂. ActaChem.Scand., 24, 1925 - -1940.