

Crystal Data: Tetragonal. *Point group:* 4/m 2/m 2/m. As irregular grains to 500 μm .

Physical Properties: *Cleavage:* None. *Tenacity:* Brittle. *Fracture:* n.d. Hardness = 3-3.5
VHN = 218-240, 226 average (10 g load). D(meas.) = n.d. D(calc.) = 6.650

Optical Properties: [Opaque.] *Color:* Light gray in reflected light with weak red-brown internal reflections. *Streak:* Gray. *Luster:* Submetallic.

Optical Class: n.d. *Birefractance:* Weak. *Anisotropism:* Light brownish gray to gray.
R₁-R₂: (471.1) 15.6-15.8, (548.3) 14.6-14.4, (586.6) 14.5-14.3, (652.3) 14.6-14.4

Cell Data: *Space Group:* P4₂/mnm. *a* = 4.6342(5) *c* = 9.2154(8) *Z* = 2

X-ray Powder Pattern: Bon Accord deposit, southeast of Nelspruit, Republic of South Africa.
3.28 (100), 2.561 (65), 1.716 (60), 2.316 (20), 1.379 (20), 4.14 (10), 1.639 (10)

Chemistry:	(1)	(2)
NiO	17.21	18.76
Fe ₂ O ₃	1.78	
Sb ₂ O ₅	79.88	81.24
As ₂ O ₅	0.51	
Total	99.38	100.00

(1) Bon Accord deposit, southeast of Nelspruit, Republic of South Africa; average of 9 electron microprobe analyses; corresponds to (Ni²⁺_{0.92}Fe³⁺_{0.08})(Sb⁵⁺_{1.97}As⁵⁺_{0.02}Fe³⁺_{0.01})O_{6.03}. (2) NiSb₂O₆.

Occurrence: In a podiform nickeliferous deposit in altered ultramafic rocks.

Association: Trevorite, bottinoite.

Distribution: From the Bon Accord Ni-oxide deposit, southeast of Nelspruit, Republic of South Africa.

Name: Honors Professor Marian Tredoux (b. 1952), University of the Free State, Bloemfontein, Republic of South Africa, for her contribution to the mineralogical and geochemical knowledge about ultramafic rocks and the origin of the Bon Accord deposit.

Type Material: Museum of Natural History, University of Florence, Italy (3239/I).

References: (1) Bindi, L., F. Zaccarini, D.E. Miller, and G. Garuti (2018) Tredouxite, NiSb₂O₆: another new Ni-bearing mineral from the Bon Accord oxide body, South Africa. *Eur. J. Mineral.*, 30(2), 393-398. (2) (2018) *Amer. Mineral.*, 103, 2044 (abs. ref. 1).