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Crystal Data: Hexagonal. Point Group: 3m. Subhedral to anhedral grains, to 2 mm.

Physical Properties: Fracture: Conchoidal. Tenacity: Brittle. Hardness = \sim 7 D(meas.) = 3.207(9) D(calc.) = 3.21

Optical Properties: Semitransparent. Color: Dark brown-black. Streak: Gray. Luster: Vitreous to dull. Optical Class: Uniaxial (-). Pleochroism: Strong; O = light brown; E = very dark brown. $\omega = 1.687(1)$ $\epsilon = 1.669(1)$

Cell Data: Space Group: R3m. a = 16.012(2) c = 7.245(2) Z = 3

X-ray Powder Pattern: Cuvier Island, New Zealand. 2.586 (100), 2.979 (80), 4.24 (60), 4.00 (60), 3.50 (60), 2.051 (50), 6.43 (40)

Chemistry:

| | (1) | (2) |
|------------|---------|---------|
| SiO_2 | 33.33 | 33.33 |
| TiO_2 | 2.19 | 2.19 |
| B_2O_3 | 11.25 | [9.93] |
| Al_2O_3 | 23.38 | 23.38 |
| Fe_2O_3 | | [2.56] |
| FeO | 13.56 | [11.26] |
| MnO | 0.07 | 0.07 |
| MgO | 7.80 | 7.80 |
| CaO | 3.30 | 3.30 |
| Na_2O | 1.16 | 1.16 |
| K_2O | 0.05 | 0.05 |
| $\rm H_2O$ | [3.48] | [3.43] |
| Total | [99.57] | [98.46] |

(1) Cuvier Island, New Zealand; by electron microprobe, average of five analyses, total Fe as FeO, H₂O calculated from stoichiometry. (2) Do.; B₂O₃, Fe₂O₃, FeO, and H₂O calculated from stoichiometry, original total given as 98.45%; corresponding to $(Ca_{0.62}Na_{0.39}K_{0.01})_{\Sigma=1.02}(Fe_{1.53}^{2+}Mg_{1.21}Ti_{0.29}Mn_{0.01})_{\Sigma=3.04}(Al_{4.72}Mg_{0.82}Fe_{0.34}^{3+}Fe_{0.12}^{2+})_{\Sigma=6.00}$ (BO₃)₃(Si_{5.83}Al_{0.10})_{$\Sigma=5.93$ O₁₈(OH)₄.}

Mineral Group: Tourmaline group.

Occurrence: By hydrothermal replacement of silicates in a pegmatitic rock.

Association: Dravite, quartz, microcline, chlorapatite, pyrite.

Distribution: On Cuvier Island, New Zealand.

Name: For iron (FERrum), in the formula and the similarity to uvite.

Type Material: Canadian Museum of Nature, Ottawa, Canada.

References: (1) Grice, J.D. and G.W. Robinson (1989) Feruvite, a new member of the tourmaline group, and its crystal structure. Can. Mineral., 27, 199–203. (2) (1990) Amer. Mineral., 75, 706–707 (abs. ref. 1).