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Crystal Data: Monoclinic. *Point Group:* 2/m. As incrustations of polycrystalline aggregates, with crystals, less than $100 \mu m$, platy on $\{100\}$.

Physical Properties: Hardness = n.d. D(meas.) = 5.0 (synthetic). D(calc.) = 4.96

Optical Properties: Opaque, transparent only on thin edges. Color: Black; reddish brown in transmitted light; very light gray in reflected light. Streak: Reddish brown. Luster: Metallic. Optical Class: Biaxial. Pleochroism: Slight; bluish white. Absorption: Very weak. Anisotropism: Weak.

 R_1-R_2 : n.d.

Cell Data: Space Group: $P2_1/n$. a = 15.654(15) b = 6.054(4) c = 8.385(11) $\beta = 102.29(12)^{\circ}$ Z = 4

X-ray Powder Pattern: Izalco volcano, El Salvador.

7.92 (10), 2.095 (8), 4.797 (7), 2.687 (7), 2.603 (7), 1.956 (7), 2.536 (6)

Chemistry:

$$\begin{array}{cccc} & (1) & (2) \\ V_2O_5 & 30.3 & 31.38 \\ CrO_3 & 1.0 & \\ CuO & 68.1 & 68.62 \\ \hline Total & 99.4 & 100.00 \\ \end{array}$$

(1) Izalco volcano, El Salvador; by electron microprobe, average of 20 analyses of 10 crystals, total V as V_2O_5 , Cr as Cr_2O_3 ; corresponding to $Cu_{4.98}(V_{1.94}Cr_{0.06})_{\Sigma=2.00}O_{10}$. (2) $Cu_5V_2O_{10}$.

Occurrence: A very rare mineral, deposited in vanadium-bearing sublimates in fumaroles on a basaltic volcanic cone.

Association: Shcherbinaite, ziesite, fingerite, bannermanite, chalcocyanite, chalcanthite.

Distribution: On Izalco volcano, El Salvador.

Name: To honor Dr. Richard Edwin Stoiber (1911–2001), Emeritus Professor of Geology, Dartmouth College, Hanover, New Hampshire, USA, who has studied Central American volcanoes and their mineralogy.

Type Material: Department of Earth Sciences, Dartmouth College, Hanover, New Hampshire; National Museum of Natural History, Washington, D.C., USA, 144942.

References: (1) Birnie, R.W. and J.M. Hughes (1979) Stoiberite, $\text{Cu}_5\text{V}_2\text{O}_{10}$, a new copper vanadate from Izalco volcano, El Salvador, Central America. Amer. Mineral., 64, 941–944. (2) Shannon, R.D. and C. Calvo (1973) Crystal structure of $\text{Cu}_5\text{V}_2\text{O}_{10}$. Acta Cryst., 29, 1338–1345.