

Crystal Data: Monoclinic. *Point Group:* 2/m. As incrustations of polycrystalline aggregates, with crystals, less than 100 μm, 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.

R₁-R₂: n.d.

Cell Data: *Space Group:* P2₁/n. *a* = 15.654(15) *b* = 6.054(4) *c* = 8.385(11)
β = 102.29(12)° *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:	(1)	(2)
V ₂ O ₅	30.3	31.38
CrO ₃	1.0	
CuO	68.1	68.62
Total	99.4	100.00

(1) Izalco volcano, El Salvador; by electron microprobe, average of 20 analyses of 10 crystals, total V as V₂O₅, Cr as Cr₂O₃; corresponding to Cu_{4.98}(V_{1.94}Cr_{0.06})_{Σ=2.00}O₁₀. (2) Cu₅V₂O₁₀.

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

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

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, Cu₅V₂O₁₀, 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 Cu₅V₂O₁₀. *Acta Cryst.*, 29, 1338–1345.