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Crystal Data: Orthorhombic. *Point Group:* mm2. As equant anhedral crystals, to 150 μ m, typically intergrown with other fumarolic copper vanadates.

Physical Properties: Hardness = n.d. D(meas.) = 3.95-3.97 (synthetic). D(calc.) = 4.051

Optical Properties: Opaque. *Color:* Black; white in reflected light, with red-brown internal reflections. *Streak:* Red-brown. *Luster:* Metallic.

Optical Class: Biaxial. n = [2.05] (rule of Gladstone and Dale). Anisotropism: Moderate; gray to creamy gray-brown. Bireflectance: Weak to moderate; in shades of cream-white. R₁-R₂: (481) 14.6–15.3, (547) 15.4–16.6, (591) 14.8–16.7, (644) 14.5–15.7

Cell Data: Space Group: Fdd2. a = 20.676(6) b = 8.392(3) c = 6.446(2) Z = 8

X-ray Powder Pattern: Synthetic α -Cu₂V₂O₇. (ICDD 26-566). 3.260 (100), 3.080 (100), 3.220 (80), 2.483 (80), 2.102 (70), 2.096 (70), 1.712 (70)

Chemistry:		(1)	(2)
	V_2O_5	53.28	53.34
	CuO	46.49	46.66
	Total	99.77	100.00

(1) Izalco volcano, El Salvador; by electron microprobe. (2) $Cu_2V_2O_7$.

Polymorphism & Series: Dimorphous with ziesite.

Occurrence: A very rare sublimate, probably formed between 100–200 °C, from the outer sulfate zone of a fumarole in the crater of a basaltic composite volcano.

Association: Fingerite, stoiberite, mcbirneyite, ziesite.

Distribution: From the summit crater of Izalco volcano, El Salvador.

Name: To honor Dr. F. Donald Bloss (1920–), American mineralogist, Virginia Polytechnic Institute, Blacksburg, Virginia, USA.

Type Material: National Museum of Natural History, Washington, D.C., USA, 164270.

References: (1) Robinson, P.D., J.M. Hughes, and M.L. Malinconico (1987) Blossite, α -Cu₂²⁺V₂⁵⁺O₇, a new fumarolic sublimate from Izalco volcano, El Salvador. Amer. Mineral., 72, 397–400. (2) Calvo, C. and R. Faggiani (1975) α cupric divanadate. Acta Cryst., 31, 603–605.