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Crystal Data: Triclinic. Point Group: $\overline{1}$. As crystals, to 150 μ m, may be subhedral or anhedral; equant or platelike. Twinning: As contact and multiple twins, by rotation about [010].

Physical Properties: Hardness = n.d. D(meas.) = n.d. D(calc.) = 4.776

Optical Properties: Opaque. Color: Black; medium gray in reflected light. Streak: Dark reddish brown. Luster: Metallic.

Optical Class: Biaxial.

Cell Data: Space Group:
$$P\overline{1}$$
. $a = 8.1576(6)$ $b = 8.2691(5)$ $c = 8.0437(7)$ $\alpha = 107.144(5)^{\circ}$ $\beta = 91.389(7)^{\circ}$ $\gamma = 106.441(5)^{\circ}$ $Z = 1$

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

6.48 (100), 3.042 (80), 2.822 (70), 2.025 (70), 3.894 (60), 3.617 (60), 3.293 (60d)

Chemistry:

	(1)	(2)	(3)
V_2O_5	39.65	39.67	38.41
CuO	59.3	59.53	61.59
Total	98.95	99.20	100.00

(1) Izalco volcano, El Salvador; by electron microprobe, average of seven analyses. (2) Do.; by electron microprobe, averages of 15 analyses of three crystals; corresponds to $Cu_{10.6}O_{1.3}(VO_4)_{6.2}$. (3) $Cu_{11}O_2(VO_4)_6$.

Occurrence: A rare component of vanadium-bearing sublimates in fumaroles on a basaltic volcanic cone, formed between $100~^{\circ}\text{C}$ and $200~^{\circ}\text{C}$.

Association: Thenardite, euchlorine, stoiberite, shcherbinaite, ziesite, bannermanite, chalcocyanite, chalcanthite.

Distribution: On the Izalco volcano, El Salvador.

Name: In honor of Dr. Larry W. Finger (1940–), American mineralogist, Carnegie Institution, Washington, D.C., USA.

Type Material: Carnegie Institution, Washington, D.C.; National Museum of Natural History, Washington, D.C., USA, 160387.

References: (1) Hughes, J.M. and C.G. Hadidiacos (1985) Fingerite, $Cu_{11}O_2(VO_4)_6$, a new vanadium sublimate from Izalco volcano, El Salvador: descriptive mineralogy. Amer. Mineral., 70, 193–196. (2) Finger, L.W. (1985) Fingerite, $Cu_{11}O_2(VO_4)_6$, a new vanadium sublimate from Izalco volcano, El Salvador: crystal structure. Amer. Mineral., 70, 197–199.