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Crystal Data: Triclinic. Point Group: $\overline{1}$ or 1. In spherical aggregates, to 1 cm, and microcrystalline crusts.

Physical Properties: Hardness = ~ 4 D(meas.) = 3.97(1) D(calc.) = 3.94

Optical Properties: Semitransparent. Color: Blackish brown to pale beige, greenish.

Streak: Beige.

Optical Class: Biaxial. $\alpha = 1.688(2)$ $\beta = \text{n.d.}$ $\gamma = 1.90$ 2V(meas.) = n.d.

Cell Data: Space Group: $P\overline{1}$ or P1. a = 9.50 b = 12.15 c = 3.189 $\alpha = 93.32^{\circ}$ $\beta = 90.74^{\circ}$ $\gamma = 91.47^{\circ}$ Z = 4

X-ray Powder Pattern: Musonoi mine, Congo.

3.69 (100), 6.08 (80), 5.08 (80), 2.599 (70), 3.02 (40), 2.958 (40), 2.531 (40)

Chemistry:

$$\begin{array}{ccc} & & (1) \\ \text{CO}_2 & 19.44 \\ \text{CoO} & 22.98 \\ \text{CuO} & 48.40 \\ \text{H}_2\text{O} & 8.78 \\ \hline \text{Total} & 99.60 \\ \end{array}$$

(1) Musonoi mine, Congo; by X-ray fluorescence, CO_2 by gas evolution, $CO_2 + H_2O$ by TGA; corresponding to $(Cu_{1.33}Co_{0.67})_{\Sigma=2.00}(CO_3)_{0.98}(OH)_{2.07}$.

Mineral Group: Rosasite group.

Occurrence: An uncommon secondary mineral in the oxidation zone of some Cu–Co hydrothermal ore deposits.

Association: Cobaltian malachite, cobaltian dolomite, heterogenite.

Distribution: From the Musonoi and Kamoto Cu–Co mines, near Kolwezi, and the Mupine, and Mashamba West mines, Katanga Province, Congo (Shaba Province, Zaire).

Name: For its occurrence at Kolwezi, Congo.

Type Material: Royal Museum of Central Africa, Tervuren, Belgium, RMG12975; National Museum of Natural History, Washington, D.C., USA, R17228.

References: (1) Deliens, M. and P. Piret (1980) La kolwézite, un hydroxycarbonate de cuivre et de cobalt analogue à la glaukosphaerite et à la rosasite. Bull. Minéral., 103, 179–184 (in French with English abs.). (2) (1980) Amer. Mineral., 65, 1067 (abs. ref. 1).