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Crystal Data: Monoclinic. Point Group: 2/m. Crystals are stout prismatic, elongated along [100], showing $\{011\}$, $\{\overline{1}11\}$, $\{010\}$, $\{110\}$, to 6 mm. Twinning: On $\{100\}$ as twin and composition plane; lamellar structure $\|\{010\},\{011\},\{111\}\}$ visible optically.

Physical Properties: Cleavage: Perfect on $\{010\}$. Fracture: Uneven. Hardness = 3–4 D(meas.) = 3.52(8) D(calc.) = 3.57

Optical Properties: Transparent. *Color:* Pale to intense pink, may be red, commonly color zoned. *Streak:* Pale pink. *Luster:* Vitreous.

Optical Class: Biaxial (–). Pleochroism: X = violet-pink; Y = rose-pink; Z = colorless. Orientation: $Y = b; Z \land c = 92^{\circ}$. Dispersion: r < v. Absorption: $X \ge Y > Z$. $\alpha = 1.694(3)$ $\beta = 1.703(3)$ $\gamma = 1.713(3)$ $2V(\text{meas.}) = 87(2)^{\circ}$

Cell Data: Space Group: $P2_1/c$. a = 5.806(1) b = 12.912(2) c = 5.623(2) $\beta = 107^{\circ}24(1)'$ Z = 2

X-ray Powder Pattern: Bou Azzer, Morocco; close to roselite. 2.994 (100), 2.766 (80), 3.226 (60), 5.085 (50), 3.356 (40), 2.592 (40), 3.397 (30)

Chemistry:

	(1)	(2)
$\mathrm{As_2O_5}$	55.8	52.76
CoO	2.6	8.60
MgO	7.7	4.63
CaO	26.4	25.74
${\rm H_2O}$	7.4	8.27
Total	99.9	100.00

(1) Bou Azzer, Morocco; by electron microprobe, H_2O by the Penfield method; corresponding to $Ca_{2.03}(Mg_{0.82}Co_{0.15})_{\Sigma=0.97}(AsO_4)_{2.09} \cdot 1.77H_2O$. (2) $Ca_2(Mg,Co)(AsO_4)_2 \cdot 2H_2O$ with Mg:Co = 1:1.

Polymorphism & Series: Forms a series with roselite.

Mineral Group: Roselite group.

Occurrence: A rare secondary mineral in cobalt-bearing hydrothermal mineral deposits.

Association: Talmessite, erythrite (Bou Azzer, Morocco).

Distribution: From Bou Azzer, Morocco. At Sterling Hill, Ogdensburg, Sussex Co., New Jersey, USA. From an unknown locality in Coahuila, Mexico.

Name: To honor Dr. Wendell Eugene Wilson, Jr. (1946–), Editor and Publisher of the Mineralogical Record, for his contributions to specimen mineralogy.

Type Material: Royal Ontario Museum, Toronto, Canada, M42119; National Museum of Natural History, Washington, D.C., USA, 136288.

References: (1) Dunn, P.J., B.D. Sturman, and J.A. Nelen (1987) Wendwilsonite, the Mg analogue of roselite, from Morocco, New Jersey, and Mexico, and new data on roselite. Amer. Mineral., 72, 217–221.