

Strontiodresserite



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Crystal Data: Orthorhombic. *Point Group:* $2/m\ 2/m\ 2/m$. As lathlike crystals, to 0.2 mm, typically in radially divergent aggregates forming atoll-shaped rings or smooth spheres.

Physical Properties: Hardness = n.d. $D(\text{meas.}) = 2.71$ $D(\text{calc.}) = 2.73$

Optical Properties: Transparent to translucent. *Color:* White. *Luster:* Vitreous to silky. *Optical Class:* Biaxial (-). *Orientation:* $Y \parallel$ elongation; $X \perp$ elongation and in the plane of flattening. $\alpha = 1.510(4)$ $\beta = 1.583(2)$ $\gamma = [1.595(4)]$ $2V(\text{meas.}) = 42.5(1)^\circ$

Cell Data: *Space Group:* $[Pbnm]$ (by analogy to dundasite). $a = 9.168(4)$ $b = 16.037(6)$ $c = 5.598(3)$ $Z = 4$

X-ray Powder Pattern: Francon quarry, Canada.

7.97 (10), 3.021 (8), 6.04 (7), 2.648 (6), 2.052 (6), 1.738 (6), 4.41 (5)

Chemistry:

	(1)
Al ₂ O ₃	29.13
CaO	2.78
SrO	24.36
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Total	

(1) Francon quarry, Canada; by electron microprobe, averages of three partial analyses; presence of H₂O and (OH)¹⁻ confirmed by IR; corresponds to (Sr, Ca)_{1.00}Al_{2.00}(CO₃)₂(OH)₄•H₂O.

Occurrence: As a rare crystalline coating in vugs in a silicocarbonatite sill.

Association: Quartz, weloganite, dawsonite, montroyalite.

Distribution: From the Francon quarry, Montreal Island, Montreal, Quebec, Canada.

Name: As the *strontium* analog of *dresserite*.

Type Material: Canadian Geological Survey, Ottawa, 13704; Royal Ontario Museum, Toronto, Canada, M34626, M34627.

References: (1) Jambor, J.L., A.P. Sabina, A.C. Roberts, and B.D. Sturman (1977) Strontiodresserite, a new Sr-Al carbonate from Montreal Island, Quebec. *Can. Mineral.*, 15, 405–407. (2) Roberts, A.C. (1978) The space group of strontiodresserite. *Geol. Surv. Canada Paper* 78-1B, 180.