

Crystal Data: Orthorhombic. *Point Group:* n.d. As small polycrystalline grains, to 0.2 mm; randomly oriented fibers and wiry aggregates.

Physical Properties: Hardness = n.d. VHN = 58 (25 g load). D(meas.) = n.d. D(calc.) = 4.50

Optical Properties: Opaque. *Color:* Red; in polished section, pale gray. *Luster:* Metallic. R₁-R₂: (400) 39.0-42.0, (420) 36.8-39.4, (440) 34.6-36.8, (460) 33.0-34.8, (480) 32.1-33.6, (500) 31.4-32.7, (520) 30.8-32.2, (540) 30.4-31.8, (560) 30.0-31.5, (580) 29.6-31.0, (600) 29.1-30.6, (620) 28.7-30.3, (640) 28.4-30.0, (660) 28.0-29.7, (680) 27.6-29.3, (700) 27.1-29.0

Cell Data: *Space Group:* n.d. $a = 3.576(2)$ $b = 6.759(2)$ $c = 10.074(5)$ $Z = 2$

X-ray Powder Pattern: Duranus, France. 2.919 (10), 5.620 (9), 5.037 (9), 1.969 (9), 1.788 (9), 2.682 (8), 3.016 (7)

Chemistry:	(1)	(2)	(3)
As	90.0	90.8	90.33
S	10.3	10.3	9.67
Total	100.3	101.1	100.00

(1) Duranus, France; by electron microprobe, corresponding to As_{3.95}S_{1.05}. (2) Do.; corresponding to As_{3.96}S_{1.04}. (3) As₄S.

Occurrence: In calcite veinlets in marls and siliceous limestones (Duranus, France).

Association: Arsenic, realgar, orpiment, stibnite, sphalerite, rhodochrosite, quartz, calcite.

Distribution: From Duranus, Alpes-Maritimes, France [TL]. In the Mt. Washington copper mine, Vancouver Island, British Columbia, Canada. At the Capillitas mine, San Luis, Catamarca Province, Argentina.

Name: For the locality at Duranus, France.

Type Material: National School of Mines, Paris, France.

References: (1) Johan, Z., C. Laforêt, P. Picot, and J. Ferard (1973) La duranusite, As₄S, un nouveau minéral. Bull. Soc. fr. Minéral., 96, 131-134 (in French). (2) (1975) Amer. Mineral., 60, 945 (abs. ref. 1).