

Crystal Data: Cubic. *Point Group:* 432. Massive; in xenomorphic grains, to 1 mm.

Physical Properties: Hardness = n.d. VHN = 32.7 (50 g load). D(meas.) = n.d.
D(calc.) = 9.05

Optical Properties: Opaque. *Color:* Pale pink in reflected light. *Luster:* Metallic.

R: (400) 33.4, (420) 33.4, (440) 33.4, (460) 33.0, (480) 32.3, (500) 31.2, (520) 30.1, (540) 29.8, (560) 30.2, (580) 31.0, (600) 32.0, (620) 33.1, (640) 34.0, (660) 34.8, (680) 35.4, (700) 36.0

Cell Data: *Space Group:* $I4_132$. $a = 9.967$ $Z = 8$

X-ray Powder Pattern: Předbořice, Czech Republic.

2.662 (100), 2.229 (80), 2.035 (80), 1.820 (80), 1.266 (70), 7.08 (60), 1.954 (60)

Chemistry:	(1)	(2)	(3)	(4)
Ag	47.5	48.6	52.3	47.70
Cu		0.3	0.9	
Au	27.4	27.2	23.4	29.03
Se	24.4	22.8	22.8	23.27
Total	99.3	98.9	99.4	100.00

(1) Předbořice, Czech Republic; by electron microprobe, corresponding to Ag_{2.85}Au_{0.90}Se_{2.00}.

(2) Do.; corresponding to Ag_{3.12}Cu_{0.03}Au_{0.96}Se_{2.00}. (3) Hope's Nose, England; by electron microprobe, corresponding to Ag_{3.35}Cu_{0.10}Au_{0.82}Se_{2.00}. (4) Ag₃AuSe₂.

Occurrence: In carbonate veins in epithermal precious metal deposits (Předbořice, Czech Republic).

Association: Naumannite, clausthalite, permingeatite, gold, calcite, quartz (Předbořice, Czech Republic).

Distribution: From the Předbořice uranium deposit, near Krásna Hora, Czech Republic [TL]. At Hope's Nose, Torquay, Devon, England. From the Kidd Creek mine, near Timmins, Ontario, Canada. In the USA, from the De Lamar mine, Silver City district, Owyhee Co., Idaho; in the Ken Snyder, Bonberger, and Eastern Star mines, Gold Circle district, Elko Co., Nevada. At Flamenço, Atacama, Chile.

Name: For Raymond Fischesser (1911–1991), French mineralogist and crystallographer, Director of the National School of Mines, Paris, France.

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

References: (1) Johan, Z., P. Picot, R. Pierrot, and M. Kvaček (1971) La fischesserite, Ag₃AuSe₂, premier séléniurs d'or, isotype de la petzite. Bull. Soc. fr. Minéral., 94, 381–384 (in French with English abs.). (2) (1972) Amer. Mineral., 57, 1554 (abs. ref. 1). (3) Criddle, A.J. and C.J. Stanley, Eds. (1993) Quantitative data file for ore minerals, 3rd ed. Chapman & Hall, London, 172.