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Crystal Data: Cubic. Point Group: $\overline{4}3m$. As tetrahedral crystals, to 2 mm, showing $\{100\}$, $\{110\}$, $\{111\}$, and $\{211\}$. Twinning: Interpenetrant, may be multiple.

Physical Properties: Cleavage: Very imperfect on $\{110\}$. Fracture: Uneven. Tenacity: Rather brittle. Hardness = 4.5 D(meas.) = 6.62-6.76 D(calc.) = [6.76]

Optical Properties: Transparent to opaque. *Color:* Dark brown, yellowish gray, grayish white, straw-yellow, colorless; colorless to pale brown in thin section. *Streak:* White or yellowish gray. *Luster:* Resinous or adamantine.

Optical Class: Isotropic; anomalously biaxial (-). n = 2.05

Cell Data: Space Group: $I\overline{4}3d$. a = 10.29 Z = [4]

X-ray Powder Pattern: Synthetic.

3.20 (100), 2.70 (100), 4.13 (80), 2.070 (70), 1.990 (70), 1.664 (70), 1.584 (70)

Chemistry:

	(1)	(2)
SiO_2	16.52	16.21
$\operatorname{Bi}_2 \overline{\operatorname{O}}_3$	82.23	83.79
rem.	1.15	
Total	99.90	100.00

(1) Schneeberg, Germany; remainder is Fe_2O_3 and P_2O_5 . (2) $Bi_4(SiO_4)_3$.

Occurrence: In bismuth-rich hydrothermal veins.

Association: Bismuth, quartz.

Distribution: In Germany, from Schneeberg and Johanngeorgenstadt, Saxony; at Hechtsberg, near Hausach, and in the Clara Mine, near Oberwolfach, Black Forest. From Dognecea (Dognaczka), Romania. At Lanlivery, Cornwall, England. From the Southwick cliffs, near Dalbeattie, Kirkcudbrightshire, Scotland. In Canada, from the Evans-Lou quarry, near Wakefield Lake, Quebec.

Name: From the Greek for good and dissolved, in reference to its low point of fusion.

Type Material: Mining Academy, Freiberg, Germany, 23972.

References: (1) Dana, E.S. (1892) Dana's system of mineralogy, (6th edition), 436.
(2) Menzer, G. (1931) Die Kristallstruktur von Eulytin. Zeits. Krist., 78, 136–163 (in German).
(3) Durif-Varambon, A. (1959) Étude de la substitution du silicium dans quelques types d'orthosilicates. Bull. Soc. fr. Minéral., 82, 285–314 (in French). (4) Segal, D.J., R.P. Santoro, and R.E. Newnham (1966) Neutron diffraction study of BiSi₃O₁₂. Zeits. Krist., 123, 73–76.
(5) Phillips, W.R. and D.T. Griffen (1981) Optical mineralogy, 412.