

Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m 2/m. As grains to 250 μm .

Physical Properties: *Cleavage:* Perfect on {001}. *Fracture:* Irregular. *Tenacity:* Brittle. Hardness = 2-2.5 VHN = 53 (20 g load). D(meas.) = n.d. D(calc.) = 6.582

Optical Properties: Opaque. *Color:* Black. *Streak:* Black. *Luster:* Metallic.

Optical Class: n.d. Weakly birefractant. *Pleochroism:* Weak; cream to light gray.

Anisotropism: Distinct, light brown to brown.

R₁-R₂: (400) 40.7-42.3, (420) 40.7-42.6, (440) 40.8-42.8, (460) 40.9-43.1, (480) 41.0-43.6, (500) 41.2-44.1, (520) 41.5-44.6, (540) 41.8-45.0, (560) 41.9-45.6, (580) 42.0-45.5, (600) 42.2-45.8, (620) 42.3-46.0, (640) 42.5-46.1, (660) 42.5-46.3, (680) 42.5-46.5, (700) 42.5-46.6

Cell Data: *Space Group:* Pnma. *a* = 6.6362(5) *b* = 4.2581(3) *c* = 15.3691(9) *Z* = 4

X-ray Powder Pattern: El Dragón selenide occurrence, Cordillera Oriental, southwestern Bolivia. 3.2746 (100), 3.3180 (70), 3.4901 (50), 2.3307 (50), 2.4923 (45), 2.1290 (35), 1.9927 (35)

Chemistry:	(1)	(2)
Cu	14.88	14.88
Hg	0.07	
Pb	1.23	
Ni	0.05	
Bi	44.9	48.55
Se	38.92	36.69
Total	100.05	100.00

(1) El Dragón selenide occurrence, Cordillera Oriental, southwestern Bolivia; average of 19 electron microprobe analyses; corresponds to Cu_{0.99}(Bi_{0.91}Pb_{0.02}) $\Sigma=0.93$ Se_{2.08}. (2) CuBiSe₂.

Polymorphism & Series: Polymorphous with hansblockite.

Occurrence: A primary mineral, deposited from oxidizing low-temperature hydrothermal fluids at the waning stage of selenide formation in a telethermal vein.

Association: Watkinsonite, clausthalite, krut'aite-penroseite.

Distribution: From the El Dragón selenide occurrence, Cordillera Oriental, Department of Potosí, southwestern Bolivia.

Name: Honors Günter Grundmann (b. 1947), for his pioneering work on the El Dragón mine.

Type Material: Natural History Museum, London, England (BM 2015, 33) and Mineralogische Staatssammlung München, Museum "Reich der Kristalle," Munich, Germany (MSM 73584).

References: (1) Förster, H.-J., L. Bindi, and C.J. Stanley (2016) Grundmannite, CuBiSe₂, the Se-analog of emplectite, a new mineral from the El Dragón mine, Potosí, Bolivia. *Eur. J. Mineral.*, 28(2), 467-477. (2) (2016) *Amer. Mineral.*, 101, 2780 (abs. ref. 1).