

**Crystal Data:** Hexagonal. *Point Group:* 6/m 2/m 2/m. As equant, short prismatic or thick tabular crystals, to 0.5 mm, that display prominent {100} and {001}, and rare {102} and {101}. Typically, in gear-like parallel intergrowths, to 1 mm, and crystal clusters to 1.2 mm.

**Physical Properties:** *Cleavage:* None. *Fracture:* Conchoidal. *Tenacity:* Brittle. Hardness = ~3 D(meas.) = 2.78(1) D(calc.) = 2.773

**Optical Properties:** Transparent. *Color:* Colorless. *Streak:* White. *Luster:* Vitreous. *Optical Class:* Uniaxial (-).  $\omega = 1.597(2)$   $\varepsilon = 1.572(2)$

**Cell Data:** Space Group: *P*6<sub>3</sub>/*mmc*.  $a = 8.5139(2)$   $c = 11.1408(3)$   $Z = 2$

**X-ray Powder Pattern:** Oktyabr'skoe deposit, Talnakh, Norilsk district, Siberia, Russia. 3.383 (100), 7.38 (68), 4.259 (46), 2.130 (17), 3.503 (15), 2.493 (14), 2.249 (14)

Chemistry:	(1)	(2)
CaO	28.67	28.65
Al <sub>2</sub> O <sub>3</sub>	0.11	
GeO <sub>2</sub>	0.50	
SnO <sub>2</sub>	24.20	25.66
SO <sub>3</sub>	27.25	27.28
H <sub>2</sub> O	[18.34]	18.41
Total	99.07	100.00

(1) Oktyabr'skoe deposit, Talnakh, Norilsk district, Siberia, Russia.; average of 4 electron microprobe analyses supplemented by FTIR spectroscopy, H<sub>2</sub>O calculated from structure; corresponds to Ca<sub>3.01</sub>(Sn<sub>0.95</sub>Ge<sub>0.03</sub>Al<sub>0.01</sub>)<sub>Σ=0.99</sub>S<sub>2.01</sub>O<sub>8</sub>(OH)<sub>6</sub>·3H<sub>2</sub>O. (2) Ca<sub>3</sub>Sn(SO<sub>4</sub>)<sub>2</sub>(OH)<sub>6</sub>·3H<sub>2</sub>O.

**Mineral Group:** Fleischerite group.

**Occurrence:** A late-stage, low-temperature hydrothermal mineral in cavities in massive chalcopyrite.

**Association:** Greenalite, chamosite, pectolite, ferroactinolite, calcite, fluorapatite.

**Distribution:** From the No. 1 shaft (level 750-m), Oktyabr'skoe Cu-Ni-Pd-Pt deposit (Oktyabr'sky mine), Talnakh, Norilsk district, Siberia, Russia.

**Name:** Honors Gennadiy Nikolaevich Plesin (b. 1963), a surveyor at the Oktyabr'sky mine and an amateur mineralogist who collected and provided samples of several new species first described from the Norilsk district.

**Type Material:** A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (94618).

**References:** (1) Pekov, I.V., E.V. Sereda, N.V. Zubkova, V.O. Yapaskurt, N.V. Chukanov, S.N. Britvin, I.S. Lykova, and D.Y. Pushcharovsky (2018) Genplesite, Ca<sub>3</sub>Sn(SO<sub>4</sub>)<sub>2</sub>(OH)<sub>6</sub>·3H<sub>2</sub>O, a new mineral of the fleischerite group: first occurrence of a tin sulfate in nature. *Eur. J. Mineral.*, 30(2), 375-382. (2) (2019) *Amer. Mineral.*, 104(4), 626 (abs. ref 1).