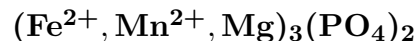


Sarcopside



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Crystal Data: Monoclinic. *Point Group:* $2/m$. Fibrous, to 1 mm, more commonly platy or lamellar, in veinlets in oriented intergrowth with graffonite or triphylite.

Twinning: Polysynthetic on $\{001\}$, common.

Physical Properties: *Cleavage:* $\{100\}$, $\{001\}$, good; $\{010\}$, poor. *Fracture:* Splintery to fibrous. Hardness = 4 $D(\text{meas.}) = 3.79$ $D(\text{calc.}) = 3.80; 3.94$

Optical Properties: Translucent. *Color:* Pink, brown to gray, colorless. *Luster:* Silky to waxy.

Optical Class: Biaxial (-). *Orientation:* $Z = b$; $X \wedge c = 45^\circ$. *Dispersion:* $r > v$, perceptible. $\alpha = 1.670\text{--}1.676$ $\beta = 1.728\text{--}1.730$ $\gamma = 1.730\text{--}1.734$ $2V(\text{meas.}) = 26^\circ\text{--}28^\circ$

Cell Data: *Space Group:* $P2_1/a$. $a = 10.437(22)$ $b = 4.768(9)$ $c = 6.026(8)$
 $\beta = 90.00(15)^\circ$ $Z = 2$

X-ray Powder Pattern: East Alstead, New Hampshire, USA.

3.03 (100), 3.54 (80), 6.06 (50), 2.819 (50), 3.95 (40), 4.37 (30), 2.558 (30)

Chemistry:

	(1)
P ₂ O ₅	39.8
FeO	50.2
MnO	6.9
MgO	3.5
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Total	100.4

(1) East Alstead, New Hampshire, USA; by electron microprobe, total Fe as FeO, total Mn as MnO; corresponding to $(\text{Fe}_{2.42}\text{Mn}_{0.34}\text{Mg}_{0.30})_{\Sigma=3.06}(\text{PO}_4)_{1.94}$. (2) Bull Moose mine, South Dakota, USA; by electron microprobe, analysis not given; stated to correspond to $(\text{Fe}_{2.34}\text{Mn}_{0.63}\text{Mg}_{0.03})_{\Sigma=3.00}(\text{PO}_4)_2$.

Occurrence: Formed along with graffonite, probably by exsolution from triphylite, in complex zoned granite pegmatites.

Association: Graffonite, vivianite, huréaulite, triphylite.

Distribution: From Góry Sowie (Michelsdorf), in the Eulengebirge, Silesia, Poland. At Otov and Domažlice, Czech Republic. From the Norrö pegmatite, on Rånö Island, and in the Berg quarry, near Sollefteå, Västerbotten, Sweden. At Hagedorf, Bavaria, Germany. In the USA, in New Hampshire, at the Gingrass Farm, near Deering, Hillsboro Co., in the G.E. Smith mine, Newport, Sullivan Co., and from the DeMott and French King No. 2 mines, East Alstead, Cheshire Co.; in South Dakota, at the Bull Moose and Victory mines, and the Lofton prospect, near Custer, Custer Co. From the Énio pegmatite mine, northeast of Galiléia, Minas Gerais, Brazil. In the Tsaobismund pegmatite, 60 km south of Karibib, Namibia.

Name: From the Greek for *flesh* and *view*, in allusion to its supposed flesh-red color [due to intimate intergrowth with graffonite].

Type Material: Wrocław University, Wrocław, Poland, IV-4247.

References: (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 858–859. (2) Hurlbut, C.S., Jr. (1965) Detailed description of sarcopside from East Alstead, New Hampshire. *Amer. Mineral.*, 50, 1698–1707. (3) Moore, P.B. (1972) Sarcopside: its atomic arrangement. *Amer. Mineral.*, 57, 24–35.