

Crystal Data: Orthorhombic. *Point Group:* $2/m\ 2/m\ 2/m$. As isolated grains to $\sim 80\ \mu\text{m}$.

Physical Properties: *Cleavage:* n.d. *Fracture:* n.d. *Tenacity:* Brittle. Hardness = n.d. D(meas.) = n.d. D(calc.) = 7.085

Optical Properties: Opaque. *Color:* Creamy-yellow in reflected light. *Streak:* n.d. *Luster:* Metallic.

Optical Class: n.d. Weakly birefractant. *Pleochroism:* Measurable but not discernible. Slight anisotropy.

R_1 - R_2 : (400) 47.6-48.8, (420) 47.9-49.1, (440) 48.3-49.4, (460) 48.6-49.9, (470) 48.8-50.3, (480) 49.0-50.7, (500) 49.4-51.5, (520) 49.9-52.4, (540) 50.3-53.3, (546) 50.5-53.5, (560) 50.9-54.1, (580) 51.4-54.9, (589) 51.7-55.2, (600) 51.9-55.5, (620) 52.4-56.2, (640) 53.0-56.8, (650) 53.2-57.1, (660) n.d., (680) 53.8-58.0, (700) 54.2-58.6

Cell Data: Space Group: *Pnma*. $a = 5.8088(2)$ $b = 3.5993(2)$ $c = 6.8221(3)$ $Z = 4$

X-ray Powder Pattern: Agios Stefanos mine, Othrys ophiolite complex, central Greece. 2.157 (100), 2.273 (60), 2.785 (25), 2.118 (25), 2.950 (20), 1.784 (20), 4.43 (10)

Chemistry:	(1)	(2)
Ni	21.81	41.74
Co	16.46	
Fe	3.83	
V	20.85	36.23
Mo	16.39	
Si	0.14	
P	19.90	22.03
S	0.41	
Total	99.79	100.00

(1) Agios Stefanos mine, Othrys ophiolite complex, central Greece; average of 5 electron microprobe analyses; corresponds to $(\text{Ni}_{0.57}\text{Co}_{0.32}\text{Fe}_{0.11})_{\Sigma=1.00}(\text{V}_{0.63}\text{Mo}_{0.26}\text{Co}_{0.11})_{\Sigma=1.00}(\text{P}_{0.98}\text{S}_{0.02})_{\Sigma=1.00}$. (2) NiVP.

Occurrence: In a heavy mineral concentrate separated from podiform chromitite hosted in strongly serpentinized dunite from a mantle tectonite composed of harzburgite and minor intercalations of plagioclase-bearing lherzolite.

Association: Tsikourasite, nickelposphide, awaruite.

Distribution: From the Agios Stefanos mine, ~ 10 km south of Domokos, Othrys ophiolite complex, central Greece.

Name: Honors Tassos Grammatikopoulos (b. 1966), geoscientist at the SGS Canada Inc., for his contributions to the economic mineralogy and mineral deposits of Greece.

Type Material: Natural History Museum, University of Pisa, Italy (19,911).

References: (1) Bindi, L., F. Zaccarini, E. Ifandi, B. Tsikouras, C. Stanley, G. Garuti, and D. Mauro (2020) Grammatikopoulosite, NiVP, a new phosphide from the chromitite of the Othrys ophiolite, Greece. *Minerals*, 10(2), 131. (2) (2020) *Amer. Mineral.*, 105(10), 1600-1601 (abs. ref. 1).