

Crystal Data: Orthorhombic. *Point Group:* $2/m\ 2/m\ 2/m$. As grains to 8 μm and in linear arrays of grains within two masses of Fe-rich serpentine.

Physical Properties: *Cleavage:* n.d. *Hardness* = n.d. *D(meas.)* = n.d. *D(calc.)* = n.d.

Optical Properties: Opaque. *Color:* Creamy white in reflected light. *Streak:* n.d.

Luster: Metallic.

Optical Class: n.d.

Cell Data: *Space Group:* $Pnma$. $a = 5.833(1)$ $b = 3.569(1)$ $c = 6.658(1)$ $Z = 4$ [synthetic FeCrP]

X-ray Powder Pattern: Calculated pattern.

2.247 (100), 2.139 (81), 2.258 (46), 1.785 (43), 1.885 (34), 2.074 (31), 1.866 (31)

Chemistry:	(1)	(2)
P	22.30	22.31
Ti	2.81	
V	3.99	
Cr	21.99	37.46
Fe	46.24	40.23
Co	0.11	
Ni	2.56	
Total	100.00	100.00

(1) Kaidun meteorite; average electron microprobe analysis; after subtraction of contributions from matrix contamination corresponds to $\text{Fe}(\text{Cr}_{0.587}\text{Fe}_{0.150}\text{V}_{0.109}\text{Ti}_{0.081}\text{Ni}_{0.060}\text{Co}_{0.002})\text{P}$. (2) FeCrP.

Occurrence: In microbreccia containing an enormously varied assortment of extraterrestrial fragments of different chondritic and achondritic lithologies.

Association: Florenskyite, serpentine.

Distribution: From the Kaidun meteorite.

Name: Honors *Andrey Ivanov* (b. 1937), Russian geochemist and mineralogist, who was one of the principal investigators for the Luna missions.

Type Material: At the Curation Facility, NASA Johnson Space Center, Houston, Texas, USA (section 3.10j) and the Vernadski Institute, Moscow, Russia.

References: (1) Zolensky, M., M. Gounelle, T. Mikouchi, K. Ohsumi, L. Le, K. Hagiya, and O. Tachikawa (2008) Andreyivanovite: A second new phosphide from the Kaidun meteorite. *Amer. Mineral.*, 93, 1295-1299.