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Crystal Data: Tetragonal. *Point Group:* $\overline{4}$. Rarely in crystals, rounded, may be hoppered; commonly in plates or tablets, or rods and needles, embedded in or along grain boundaries of kamacite in iron meteorites.

Physical Properties: Cleavage: Perfect on $\{001\}$; another, prismatic, on $\{010\}$ or $\{110\}$, imperfect. Tenacity: Very brittle. Hardness = 6.5–7 D(meas.) = 7.0–7.3 D(calc.) = 7.12–7.44 Strongly magnetic.

Optical Properties: Opaque. *Color:* Silver-white to tin-white, tarnishing brass-yellow or brown. *Luster:* Brilliant metallic.

Optical Class: Uniaxial.

 $R_1 - R_2$: n.d.

Cell Data: Space Group: $I\overline{4}$. a = 9.013-9.106 c = 4.424-4.464 Z = 8

X-ray Powder Pattern: Synthetic Fe_3P .

2.20(100), 1.978(100), 2.03(80), 1.115(80), 1.281(65), 1.127(65), 1.762(55)

Chemistry:		(1)	(2)	(3)	(4)
	Fe	41.54	66.92	81.7	84.40
	Co	0.80	0.62		
	Ni	42.61	18.16		
	Р	15.05	14.88	18.1	15.60
	Total	100.00	100.58	99.8	100.00

(1-2) Beaconsfield meteorite. (3) Red Sea; average of four analyses. (4) Fe₃P.

Occurrence: In nearly all iron meteorites, but lacking in those which are nickel deficient; rare in stony meteorites. Terrestrial occurrences are in reduced differentiated lenses in basalt (Disko Island, Greenland); as a hydrothermal metasomatic replacement of mineralized wood at a depth of 1400 m (Red Sea).

Association: Kamacite, tetrataenite (meteorites); iron, cohenite, troilite, wüstite (Disko Island, Greenland).

Distribution: Common in iron meteorites, as Magura, Bohumilitz, Beaconsfield, Canyon Diablo, Coahuila, many others. In Greenland, on Disko Island, near Kitdlît. At an unspecified location in the Red Sea.

Name: To honor Karl Franz Anton von Schreibers (1775–1852), of Vienna, Austria.

Type Material: Natural History Museum, Vienna, Austria (Magura meteorite).

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