

Crystal Data: Hexagonal. *Point Group:* 622. A very thin coating on lava.

Physical Properties: Hardness = n.d. $D(\text{meas.}) = 3.147$ $D(\text{calc.}) = 3.08$

Optical Properties: Opaque. *Color:* Silvery white. *Luster:* Metallic.

Optical Class: Uniaxial.

R_1 – R_2 : n.d.

Cell Data: *Space Group:* $P6_322$ (synthetic). $a = 4.678$ $c = 4.369$ $Z = 0.5$

X-ray Powder Pattern: Synthetic.

2.346 (100), 2.196 (100), 2.061 (100), 1.596 (100), 1.349 (100), 1.2355 (100), 1.1484 (100)

Chemistry:

	(1)	(2)
Fe	90.86	90.88
N	9.14	9.12
Total	100.00	100.00

(1) Etna, Sicily, Italy. (2) Fe₅N₂.

Occurrence: A volcanic sublimate on lava.

Association: n.d.

Distribution: On Etna, Sicily, and Vesuvius, Campania, Italy.

Name: From the Greek for *iron*, *sideros*, and *nitrogen*, *azote*, for its composition.

Type Material: n.d.

References: (1) Palache, C., H. Berman, and C. Frondel (1944) Dana's system of mineralogy, (7th edition), v. I, 126. (2) Hendricks, S.B. and P.R. Kosting (1930) XXXV. The crystal structure of Fe₂P, Fe₂N, Fe₃N, and FeB. Zeits. Krist., 74, 511–533.