

**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) Fe<sub>5</sub>N<sub>2</sub>.

**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 Fe<sub>2</sub>P, Fe<sub>2</sub>N, Fe<sub>3</sub>N, and FeB. *Zeits. Krist.*, 74, 511–533.