Patrónite

Crystal Data: Monoclinic. Point Group: 2/m. Massive, and as aggregates of columnar crystals.


Cell Data: Space Group: I2/c. a = 6.775(5) b = 10.42(1) c = 12.11(1) β = 100.8(2.0)° Z = 8

X-ray Powder Pattern: Synthetic VS₄. 5.604 (100), 5.181 (65), 2.473 (30), 2.216 (30), 2.047 (25), 3.151 (20), 2.962 (20)

Chemistry: Composition established by comparison of X-ray patterns with synthetic material.

Occurrence: As interstitial filling in the core of a porous 2.5 m layer of admixed vanadium-bearing minerals. These vanadian materials are in fissures that cut red shales and that were probably filled by a remobilized asphaltite deposit.

Association: Sulfur, bravoite, pyrite, minasragrite, stanleyite, dwornikite, quartz, vanadian lignite, natural coke.

Distribution: A major ore mineral in what was the world’s richest vanadium deposit, at Minasragra, 46 km from Cerro de Pasco, Peru [TL].

Name: After Antenor Rizo-Patrón (1866–1948), Peruvian metallurgist, discoverer of the Peruvian occurrence.

Type Material: n.d.


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