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**Crystal Data:** Orthorhombic, pseudohexagonal. Point Group: 2/m 2/m 2/m. As thick tabular pseudohexagonal prisms, may have rough pyramidal terminations {011}. Twinning: Pseudohexagonal twins common || [001] by interpenetration of {120}; lamellar twinning is also present.

**Physical Properties:** Fracture: Uneven. Tenacity: Brittle. Hardness = 3.5–4 VHN = 225–242 (100 g load). D(meas.) = 4.25 D(calc.) = 4.27

**Cell Data:** Space Group: Pmmn. a = 6.639(4) b = 11.463(6) c = 6.452(3) Z = 4

**X-ray Powder Pattern:** Měděnec, Czech Republic. 3.320 (10), 3.316 (9), 1.807 (7), 5.746 (5), 3.104 (5), 1.927 (5), 3.603 (4)

Chemistry:		(1)	(2)	(3)
	Ag	32.89	34.55	34.17
	Fe	35.89	35.03	35.37
	Cu	0.19	0.17	
	As		0.05	
	$\mathbf{S}$	30.71	30.15	30.46
	Total	99.68	99.95	100.00
	(2)	<b>Γ</b> 1 Υ		11.1.1

(1) St. Andreasberg, Germany. (2) Měděnec, Czech Republic; by electron microprobe, corresponding to  $Ag_{1.02}Cu_{0.01}Fe_{2.00}S_{3.00}$ . (3)  $AgFe_2S_3$ .

**Polymorphism & Series:** Dimorphous with sternbergite.

**Occurrence:** Rare in silver-bearing hydrothermal veins.

**Association:** Arsenic, proustite, pyrargyrite, pyrostilpnite, xanthoconite, sternbergite, stephanite, pyrite, nickel-skutterudite, dolomite, calcite, quartz.

**Distribution:** In the Czech Republic, at Jáchymov (Joachimsthal) [TL], Příbram, and in the Krušné hory Mountains, at Měděnec. From St. Andreasberg, Harz Mountains; Marienberg, Schneeberg, Johanngeorgenstadt, and Freiberg, Saxony; and at the Anton mine, Wieden, Black Forest, Germany. At the Tynebottom mine, Garrigill, near Alston, Cumbria, England. From Broken Hill, New South Wales, Australia. In the Omidani mine, Hyogo Prefecture, Japan. At Colquechaca, Potosí, Bolivia. In the Silvana mine, Sandon, British Columbia, Canada.

**Name:** For its composition and physical similarity to pyrite.

Type Material: Royal Ontario Museum, Toronto, Canada, M13001.

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