Crystal Data: Monoclinic. *Point Group*: 2. As anhedral to subhedral flakes and grains to 80 μm. *Twinning*: Hexagonal pseudosymmetry, intimately twinned with six twin domains.

Physical Properties: *Cleavage*: Perfect on {001}. *Tenacity*: Brittle. *Fracture*: Uneven to subconchoidal. Hardness = ~3.5 VHN = 111-131, 122 average (20 g load). D(meas.) = n.d. D(calc.) = 5.74

Optical Properties: Opaque. *Color*: Dark red to gray black; grayish white in reflected light. *Streak*: Dark reddish gray. *Luster*: Metallic.
Optical Class: *Bireflectance*: Moderate, white to brownish gray. *Anisotropism*: Weak, with red internal reflections.
R_1-R_2: (471.1) 28.2-29.4, (548.3) 25.0-26.3, (586.6) 22.9-23.5, (652.3) 20.9-21.2

Cell Data: *Space Group:* C2. a = 26.011(2) b = 15.048(1) c = 15.513(1) β = 90.40(1)° Z = 8

X-Ray Diffraction Pattern: Glasberg quarry, Nieder-Beerbach, Odenwald, Germany.
3.014 (100), 3.004 (60), 3.18 (50), 2.755 (40), 2.501 (30), 1.880 (30), 2.484 (20)

Chemistry:

	(1)	(2)
Ag	65.66	67.35
Cu	0.05	
Pb	0.01	
Fe	1.16	2.18
Hg	3.04	
As	11.21	11.70
Sb	0.14	
S	18.27	18.77
Total	99.43	100.00

(1) Glasberg quarry, Nieder-Beerbach, Odenwald, southwestern Germany; average electron microprobe analysis; corresponds to $Ag_{16.04}(Fe_{0.55}Hg_{0.40}Cu_{0.02})_{\Sigma=0.97}(As_{3.94}Sb_{0.03})_{\Sigma=3.97}S_{15.02}$.
(2) $[Ag_6As_2S_7][Ag_{10}FeAs_2S_8]$.

Occurrence: n.d.

Association: Proustite, xanthoconite, arsenolite, calcite, prehnite.

Distribution: From the Glasberg quarry, Nieder-Beerbach, Odenwald, southwestern Germany (TL) and Chañarcillo, Copiapó Province, Chile.

Name: The prefix indicates the Fe-analogue of *fettelite*.

Type Material: University of Arizona Gem and Mineral Museum, Tucson, Arizona, USA (22716).

References: (1) Bindi, L. and R.T. Downs (2022) Ferrofettelite, $[Ag_6As_2S_7][Ag_{10}FeAs_2S_8]$, a new sulfosalt from the Glasberg quarry, Odenwald, Germany. Mineral. Mag., 86, 340-345. (2) Bindi, L., R.T. Downs, P.G. Spry, W.W. Pinch, and S. Menchetti (2012) A chemical and structural re-examination of fettelite samples from the type locality, Odenwald, southwest Germany. Mineral. Mag., 76, 551-566.