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Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m 2/m, mm2, or 222. Crystals are flattened on $\{001\}$, to 0.25 mm, showing $\{100\}$, $\{010\}$, $\{110\}$, $\{001\}$, in radial aggregates and scaly crusts. *Twinning:* On $\{110\}$.

Physical Properties: Cleavage: On $\{001\}$, perfect. Fracture: Irregular. Hardness = ~ 2 D(meas.) = > 4.03 D(calc.) = 5.26

Optical Properties: Translucent. *Color:* Yellow to yellow-brown. *Streak:* Pale yellow. *Luster:* Pearly.

Optical Class: Biaxial (–), may be uniaxial (–). Orientation: Z=c. Dispersion: $r\gg v$. $\alpha=2.10(1)$ $\beta=\text{n.d.}$ $\gamma=2.185(1)$ $2V(\text{meas.})=18^\circ$

Cell Data: Space Group: Pmmm, Pmm2, or P222. a = 7.29 b = 12.59 c = 19.55 Z = 3

X-ray Powder Pattern: Clara mine, Germany. 3.13 (10), 3.25 (8), 1.822 (8), 6.33 (7), 2.92 (7), 2.45 (7), 6.01 (6)

Chemistry:

	(1)	(2)
WO_3	72.7	74.16
Fe_2O_3	13.3	12.77
PbO	2.1	
CaO	1.8	2.99
${\rm H_2O}$	[10.1]	10.08
Total	[100.0]	100.00

(1) Clara mine, Germany; H₂O by difference, corresponds to $H(Ca_{0.61}Pb_{0.18})_{\Sigma=0.79}$ $Fe_{3.15}(WO_4)_{5.93} \cdot 10.2H_2O$. (2) $HCaFe_3(WO_4)_6 \cdot 10H_2O$.

Occurrence: A rare secondary mineral in the oxidized zone of a hydrothermal polymetallic barite–fluorite deposit.

Association: Ferritungstite, scheelite, pyrite, fluorite, hematite, quartz.

Distribution: From the Clara mine, near Oberwolfach, Black Forest, Germany.

Name: From the Greek for leaf, reflecting its crystal habit, and tungsten in its composition.

Type Material: University of Stuttgart, Stuttgart, Germany; National Museum of Natural History, Washington, D.C., USA, 161199.

References: (1) Walenta, K. (1984) Phyllotungstit, ein neues sekundäres Wolframmineral aus der Grube Clara im mittleren Schwarzwald. Neues Jahrb. Mineral., Monatsh., 529–535 (in German with English abs.). (2) (1986) Amer. Mineral., 71, 846 (abs. ref. 1).