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Crystal Data: Orthorhombic, pseudohexagonal. Point Group: 222. As irregular to skeletal pseudohexagonal crystals, tabular on $\{001\}$, to 1 mm; rarely stacked \parallel [001] and exhibiting parallel striations; massive. Twinning: Microscopic lamellar twinning visible on cleavage surfaces, penetration twinning on $\{110\}$ also common.

Physical Properties: Cleavage: Perfect on $\{001\}$. Hardness = ~ 2 D(meas.) = 5.6 D(calc.) = 5.56

Optical Properties: Transparent to translucent. *Color:* Colorless to white. *Streak:* White. *Luster:* Resinous to adamantine; pearly on cleavage surfaces.

Optical Class: Biaxial (–). Orientation: X=c; Y=b; Z=a. Dispersion: r< v. $\alpha=1.922(5)$ $\beta=1.933(4)$ $\gamma=1.938(4)$ $2V(meas.)=32(5)^\circ$

Cell Data: Space Group: $C222_1$. a = 15.875(4) b = 9.261(3) c = 29.364(9) Z = 10

X-ray Powder Pattern: Tsumeb, Namibia.

3.65 (100b), 3.12 (80b), 14.70 (70), 2.47 (70), 7.99 (60), 1.633 (60), 1.476 (60)

Chemistry:

	(1)	(2)
SiO_2	16.5	16.62
PbO	76.7	77.15
$\mathrm{H_2O}$	6.2	6.23
Total	99.4	100.00

(1) Tsumeb, Namibia; by electron microprobe, H₂O by TGA. (2) Pb₅Si₄O₈(OH)₁₀.

Occurrence: A secondary mineral developed in the oxidized zone above complex galena-bearing ores.

Association: Alamosite, melanotekite (Tsumeb, Namibia); wulfenite (Tiger, Arizona, USA).

Distribution: From Tsumeb, Namibia. In the Mammoth-St. Anthony mine, Tiger, Pinal Co., Arizona, USA.

Name: For lead, PLUMBum, in the mineral's composition, and the type locality, TSUMeb, Namibia.

Type Material: Institute for Mineralogy and Crystal Chemistry, University of Stuttgart, Germany, NM10; National Museum of Natural History, Washington, D.C., USA, 148301.

References: (1) Keller, P. and P.J. Dunn (1982) Plumbotsumit, $Pb_5(OH)_{10}Si_4O_8$, ein neues Bleisilikat von Tsumeb, Namibia. Chem. Erde, 41, 1–6 (in German). (2) (1982) Amer. Mineral., 67, 1075–1076 (abs. ref. 1).