

Crystal Data: Monoclinic. *Point Group:* $2/m$. Crystals are typically flattened on {100}, elongated along [010] or [100], may be flat tabular on $\{\bar{1}01\}$; prominent forms are {100}, {011}, {001}, {010}, several others modifying, to 1.3 cm. *Twinning:* On {100}, common as interpenetration twins; also on $\{\bar{1}02\}$.

Physical Properties: *Cleavage:* Perfect on {100}. Hardness = 2.5–3 D(meas.) = 8.46 D(calc.) = 8.45

Optical Properties: Semitransparent. *Color:* Yellowish brown, pale yellow, gray.

Luster: Adamantine.

Optical Class: Biaxial (+). *Orientation:* $Y = b$; $Z \wedge c \simeq 30^\circ$. $\alpha = 2.27(2)$ $\beta = 2.27(2)$ $\gamma = 2.30(2)$ $2V(\text{meas.}) = \sim 0^\circ$

Cell Data: *Space Group:* $P2_1/a$. $a = 13.555(11)$ $b = 4.976(2)$ $c = 5.561(3)$ $\beta = 107.63(7)^\circ$ $Z = 4$

X-ray Powder Pattern: Broken Hill, Australia. (ICDD 16-156). 3.224 (100), 2.760 (60), 3.619 (55), 2.705 (55), 1.812 (25), 3.593 (20), 3.478 (20)

Chemistry:

	(1)	(2)
WO ₃	48.32	50.95
PbO	49.06	49.05
rem.	1.43	
Total	98.81	100.00

(1) Broken Hill, Australia; remnant is Fe₂O₃ and MnO. (2) PbWO₄.

Polymorphism & Series: Dimorphous with stolzite.

Occurrence: An uncommon secondary mineral formed in the oxidized zone of tungsten-bearing hydrothermal base metal deposits; inverts to stolzite above 410 °C.

Association: Stolzite, yttrotungstite, almotungstite, cuprotungstite, ferritungstite.

Distribution: From the Proprietary mine, Broken Hill, and the Cordillera mine, near Tuena, New South Wales, Australia. At the Otani mine, Kyoto Prefecture, Japan. In the Kramat Pulai mine, Kinta district, Perak, Malaysia. From the Sumidoro gold placers, Municipio do Mariana, Minas Gerais, Brazil. At Gifurwe, Rwanda. In the Clara mine, near Oberwolfach, Black Forest, Germany.

Name: To honor Charles Rasp (1846–1907), German–Australian prospector who discovered the Broken Hill deposit.

Type Material: Natural History Museum, Vienna, Austria, G6263.

References: (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 1089–1090. (2) Fujita, T., I. Kawada, and K. Kato (1977) Raspite from Broken Hill. Acta Cryst., 33, 162–164.