

**Crystal Data:** Tetragonal. *Point Group:* 4/m 2/m 2/m. Crystals, to 100 μm, display {100} and {110}.

**Physical Properties:** *Cleavage:* Good on {001}. *Fracture:* Uneven.  
*Tenacity:* Brittle. *Hardness* = ~ 4 D(meas.) = 4.20(5) D(calc.) = 4.236

**Optical Properties:** Almost opaque. *Color:* Purple to dark blue. *Streak:* Purple. *Luster:* Vitreous.  
*Optical Class:* Uniaxial (-).  $\omega = 1.745(20)$   $\epsilon = 1.730(20)$  *Pleochroism:* Strong, purple to blue.

**Cell Data:** *Space Group:* I4<sub>1</sub>/acd.  $a = 9.967(1)$   $c = 22.290(2)$   $Z = 16$

**X-ray Powder Pattern:** Wessels mine, Northern Cape Province, South Africa.  
2.985 (100), 3.533 (70), 2.499 (57), 5.577 (31), 4.560 (31), 4.997 (30), 2.280 (23)

<b>Chemistry:</b>	(1)
CuO	22.53
BaO	43.43
SiO <sub>2</sub>	34.04
Total	100.00

(1) Wessels mine, Northern Cape Province, South Africa; average of 5 electron microprobe analyses supplemented by IR spectroscopy; corresponding to Ba<sub>1.00</sub>Cu<sub>1.00</sub>Si<sub>2.00</sub>O<sub>6</sub>.

**Occurrence:** In a hydrothermally-altered sedimentary manganese deposit.

**Association:** Pectolite, quartz, aegirine, richterite, minerals of the garnet group, manganese and iron oxides with a dominance of hausmannite and hematite, effenbergerite-wesselsite, lavinskyite, scottyite, diegogattaite.

**Distribution:** From the central-eastern ore body of the Wessels mine, Kalahari Manganese Field, Northern Cape Province, South Africa.

**Name:** Honors Colin R. Owens (b. 1937), Somerset West, South Africa, who collected the first specimens.

**Type Material:** Institute for Mineralogy and Crystallography, University of Vienna, Austria (HS13.097).

**References:** (1) Rieck, B., H. Pristacz, and G. Giester (2015) Colinowensite, BaCuSi<sub>2</sub>O<sub>6</sub>, a new mineral from the Kalahari Manganese Field, South Africa and new data on wesselsite, SrCuSi<sub>4</sub>O<sub>10</sub>. *Mineral. Mag.*, 79(7), 1769-1778. (2) (2016) *Amer. Mineral.*, 101, 2356 (abs. ref. 1).