

**Crystal Data:** Monoclinic. *Point Group:*  $2/m$ . Crystals are pseudo-hexagonal, flattened on {010}, with {101}, {103},  $\{\bar{1}01\}$ , {111}, and  $\{11\bar{1}\}$ , to 0.2 mm.

**Physical Properties:** *Cleavage:* Perfect on {010}. *Hardness* = 2.5 *D*(meas.) = 3.12  
*D*(calc.) = 3.11

**Optical Properties:** Semitransparent. *Color:* Canary-yellow. *Streak:* Pale yellow.  
*Luster:* Resinous to adamantine.

*Optical Class:* Biaxial (-). *Pleochroism:* Strong; *X* = colorless; *Y* = *Z* = yellow. *Orientation:* *X* = *b*; *Z*  $\wedge$  *a* = 47°.  $\alpha$  = 1.70(1)  $\beta$  = 2.21(2)  $\gamma$  = 2.38(2) *2V*(meas.) = n.d.  
*2V*(calc.) = 48°

**Cell Data:** *Space Group:*  $P2_1/n$ . *a* = 10.618(5) *b* = 13.825(7) *c* = 10.482(5)  
 $\beta$  = 91.61(4)° *Z* = 16

**X-ray Powder Pattern:** Lake Como, Colorado, USA.

3.322 (100), 3.248 (93), 6.94 (84), 3.680 (58), 3.79 (53), 2.656 (51), 2.620 (41)

**Chemistry:**

	(1)	(2)
MoO <sub>3</sub>	78.60	79.98
Fe <sub>2</sub> O <sub>3</sub>	trace	
H <sub>2</sub> O	[21.40]	20.02
Total	[100.00]	100.00

(1) Lake Como, Colorado, USA; by electron microprobe, average of 15 analyses, H<sub>2</sub>O by difference. (2) MoO<sub>3</sub>·2H<sub>2</sub>O.

**Occurrence:** An oxidation product of jordisite in a quartz vein.

**Association:** Jordisite, quartz.

**Distribution:** From near Lake Como, Hinsdale Co., Colorado, USA.

**Name:** To honor Dr. Sidney Arthur Williams (1933–), American mineralogist and petrologist of Douglas, Arizona, USA, for his contributions to the mineralogy of oxidation zones of ore deposits.

**Type Material:** National School of Mines, Paris, France.

**References:** (1) Cesbron, F. and D. Ginderow (1985) La sidwillite, MoO<sub>3</sub>·2H<sub>2</sub>O; une nouvelle espèce minérale de Lake Como, Colorado, USA. *Bull. Minéral.*, 108, 813–823 (in French with English abs.). (2) (1986) *Amer. Mineral.*, 71, 1546 (abs. ref. 1).