

Cousinite**MgU₂Mo₂O₁₃•6H₂O(?)**

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Crystal Data: n.d. *Point Group:* n.d. In thin blades, lamellar.

Physical Properties: Hardness = n.d. D(meas.) = n.d. D(calc.) = n.d. Radioactive.

Optical Properties: Semitransparent. *Color:* Black. *Luster:* Vitreous.

Optical Class: n.d. *n* = n.d.

Cell Data: *Space Group:* n.d. *Z* = n.d.

X-ray Powder Pattern: n.d.

Chemistry:

	(1)	(2)
MoO ₃	28.35	28.55
UO ₃		56.73
UO ₂	55.25	
PbO	4.60	
MgO	4.10	4.00
H ₂ O		10.72
insol.	2.43	
LOI	6.64	
Total	101.37	100.00

(1) Shinkolobwe, Congo; after deduction of PbMoO₄ (as observed wulfenite), corresponds to Mg_{1.03}U_{2.08}Mo_{2.00}O_{13.27}•3.74H₂O. [possibly a magnesian umohoite or calcurmolite].

(2) MgU₂Mo₂O₁₃•6H₂O.

Occurrence: As an alteration product of molybdenite-bearing uranium ore.

Association: Uraninite, molybdenite, wulfenite.

Distribution: From Shinkolobwe, Katanga Province, Congo (Shaba Province, Zaire).

Name: To honor Jules Cousin (1884–1965), President of the Board of Directors of the Union Minière du Haut-Katanga, Congo.

Type Material: Royal Belgium Institute of Natural History, Brussels, Belgium, RC4759 and RC4760.

References: (1) Vaes, J.F. (1958) Cousiniet, een nieuw uraanmineral. *Geologie en Mijnbouw*, 20(12), 449 (in Dutch). (2) (1959) *Amer. Mineral.*, 44, 910 (abs. ref. 1).