

Crystal Data: Hexagonal. *Point Group:* 6mm. As grains less than 1 μm.

Physical Properties: *Cleavage:* n.d. *Fracture:* n.d. *Tenacity:* n.d. *Hardness =* n.d.
D(meas.) = n.d. D(calc.) = 5.54

Optical Properties: n.d. *Color:* n.d. *Streak:* n.d. *Luster:* n.d.
Optical Class: n.d.

Cell Data: Space Group: *P6₃mc*. *a* = 5.778 *c* = 9.904 *Z* = 2

X-ray Powder Pattern: n.d.

Chemistry:	(1)	(2)	(3)
MoO ₂	60	80.3	82.64
MgO	10.4	13.3	17.36
FeO	5.01	6.4	
Al ₂ O ₃	1.2		
NiO	0.7		
Total	77.6	100.0	100.00

(1) Allende meteorite; average of 4 electron microprobe analyses, low total ascribed to small sample size. (2) Allende meteorite, analysis (1) corrected by removal of Al and Ni contamination and normalized; corresponds to (Mg_{1.57}Fe_{0.43})Mo_{3.00}O₈. (3) Mg₂Mo₃O₈.

Mineral Group: Kamiokite group.

Occurrence: In a CV3 carbonaceous chondrite.

Association: Ni-Fe and Ru-Os-Ir alloys, apatite, Nb-oxide, spinel, diopside, awaruite.

Distribution: From the Allende meteorite (CV3 carbonaceous chondrite).

Name: Honors mineralogist Ma Jinde (1939-1991), University of Geosciences, Wuhan, China.

Type Material: National Museum of Natural History, Washington, D.C., USA (USNM 7615).

References: (1) Ma, C. and J.R. Beckett (2016) Majindeite, Mg₂Mo₃O₈, a new mineral from the Allende meteorite and a witness to post-crystallization oxidation of a Ca-Al-rich refractory inclusion. *Amer. Mineral.*, 101, 1161-1170.