



# molybdenum disulfide

Technical, Technical Fine, Super-Fine

MoS<sub>2</sub>

- MIL-M-7866
- AMS-M-7866
- Small Sizes
- Fiber Drums
- Custom Formulations

Rose Mill Company, manufacturer of Bemol brand lubricants, offers technical grade, technical fine grade, and super-fine grade molybdenum disulfide powder for use in lubricant manufacturing and end-use applications. Technical grade is manufactured in accordance with MIL/AMS-M-7866.

Rose Mill stocks MoS<sub>2</sub> in 1 lb., 5 lb., and 25 lb. plastic pails (available online at [www.RoseMill.com](http://www.RoseMill.com)), and 200-250 lb. fiber drums. Custom packaging, custom formulations, and custom powdering is available to meet your specifications. Contact us for details.

## Product Analysis

### Molybdenum Disulfide (MoS<sub>2</sub>) CAS 1317-33-5

Typical Analysis	Technical	Technical Fine	Super-Fine
MoS <sub>2</sub>	98.0% min.	98.0% min.	98.0% min.
Acid (insoluble)	0.50% max.	0.50% max.	0.50% max.
Fe	0.25% max.	0.25% max.	0.25% max.
MoO <sub>3</sub>	0.05% max.	0.05% max.	0.15% max.
H <sub>2</sub> O	0.02% max.	0.05% max.	0.15% max.
Oil	0.05% max.	0.40% max.	0.40% max.
C	1.50% max.	1.50% max.	1.50% max.
Acid Nmber	0.05	0.25	3.0
ParticleSize (avg.)	30 um	6 um	1.5 um
Malvern (in 2-propanol)	90% <78.38	90% <11.82	90% <4.38
	50% <31.59	50% <5.22	50% <2.05
	10% <9.44	10% <1.97	10% <1.00

#### GENERAL PROPERTIES

Hardness	1-1.5 Mohs scale (basal plane)
Density	4.96 +/-0.03 (x-ray diffraction calculation)
Wettability	60° contact angle <sup>w</sup> /water
Electrical	Semi-conductor <i>p</i> or <i>n</i> type

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