



NORTH METAL & CHEMICAL COMPANY

World Class Molybdenum & Tungsten Compounds

Since 1921



Technical Bulletin

SODIUM MOLYBDATE DIHYDRATE

About us.....

- Founded in York, PA in 1921, NM&C remains a financially stable, family owned producer of *World Class Molybdenum & Tungsten* compounds serving the Metal Finishing, Agriculture, Water Treatment, Pigment, and Antifreeze markets worldwide.
- NM&C maintains over \$2 million inventory of finished goods and ore concentrates to guarantee our customers a stable and secure source of molybdate in the event of a crisis or shortage.
- All orders for one drum to truckload quantities are shipped the next business day or as requested.
- NM&C molybdates are American Made and backed by full 'Cradle-to-Grave' product liability.
- NM&C is unrivaled in customer service and technical support.
- Strict Quality Assurance programs and ISO 9002 practices assure products of the highest quality and consistency.



Description:

A very fine, white, free flowing technical grade granule. Solubility is 76g/100ml at 25° C; melting point is 686° C. When dissolved in water, the resulting solution is clear.

Technical Specifications: ...High Purity, Highly Soluble Technical Grade
(CAS No. 10102-40-6)

Element	Specification	Typical Analysis
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Na ₂ MoO ₄ · 2H ₂ O; % wt	99.5 Min.	99.8
Na ₂ MoO ₄ ; % wt.	84.5 Min.	85.5
Molybdenum (Mo); % wt.	39.6 Min.	39.9
Water loss @ 105°C; %	15 Max.	14.5
Melting Point °C (Na ₂ MoO ₄)	687° C	-----
Mercury (Hg); % wt	0.0005 Max.	<0.0005
Chloride; % wt.	0.01 Max.	<0.005
Sulfate, % wt.	0.05 Max.	<0.015
Heavy Metals as Lead (Pb); % wt.	0.001 Max.	<0.0005
Insoluble Matter	0.01 Max.	0.005
pH of 5% Solution	7.5 – 10.0	9.0
Particle size; Mesh (US Sieve)	-12 mesh	-30 to dust
Bulk Density; lbs./ft ³	-----	100

Applications: Used as a corrosion inhibitor for open and closed cooling water systems, engine coolants, metalworking fluids, metal finishing, and oil drilling mud's. Also used in pigments and agriculture.

Packaging: Available in 50, 100, 200, or 250 pound fiber drums, 100 kg. drums or 2500 lb. Super Sacs.

Shelf Life: At least one year if properly stored in unopened container.

Safety: Non-hazardous. Non-flammable. Refer to MSDS for additional precautions.



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