



NORTH METAL & CHEMICAL COMPANY
World Class Molybdenum & Tungsten Compounds
 Since 1921

STTechdata_040407

Technical Bulletin

SODIUM TUNGSTATE 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 white, finely divided crystalline material represented by the formula $\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$ with a molecular weight of 329.86 and a bulk density of 1.45 to 1.60 g/cc.

Technical Specifications: ...High Purity, Technical Grade Crystal
 (CAS No. 13472 - 45 - 2)

Assay:	Specification:
$\text{Na}_2\text{WO}_4 \times 2\text{H}_2\text{O}$; % wt.	99.00 Min.
WO_3 ; % wt.	69.00 Min.
Moisture; % wt.	10.0 min.—11.3 % Max.
Impurities:	
Alkalinity as Na_2CO_3 ; % wt.	0.10 Max.
Insoluble Matter; % wt.	0.02 Max.
Chloride; % wt.	0.03 Max.
Sulfate; % wt.	0.02 Max.
Iron (Fe); % wt.	0.01 Max.
Lead (Pb); % wt.	0.002 Max.
Other heavy metals as Lead (Pb); % wt.	0.01 Max.
Physical Characteristics:	
Solubility in water; WO_3 basis @ 25°C	4.90 lb/gal. Max.
pH; aqueous solutions	8.0 - 10.0

Applications: Used as a source of soluble tungsten for corrosion and fire inhibition, catalysts, ceramics, and light-fast colors and inks. **NOTE:** Increasing the pH over 9.0 will increase alkalinity above our internal spec. of 0.0005%.

Packaging: Available in 250 lb. Leverpak drums with poly liner.

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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