



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

Technical Bulletin

**NORTHQUEST 1000**

**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:** NorthQuest 1000 is a low molecular weight, 48% PolyAcrylic Acid homopolymer. It is highly effective as a dispersant & scale inhibitor in industrial water treatment, boiler water treatment as well as all water based systems. This product has good thermal stability to oxidizing agents like chlorine. It is non-foaming providing good environmental acceptability.

**Features:**

- Excellent dispersant
- Low threshold inhibition
- Good thermal stability to oxidizing agents like Chlorine
- Non-foaming
- Good environmental acceptability

**Technical Specifications:** (Polyacrylic acid homopolymer)

Appearance	Clear, pale yellow liquid
Color, APHA	50 max
Molecular Weight	2000
Solid content, % wt.	48-53%
pH Value (1% solution)	3.2-4.2
Specific Gravity @ 25° C	1.20 - 1.25
Viscosity; Brookfield @ 25° C, cps	100-400 cps
Sequestration Value; (mg CaCO3/g)	400-600 mg
KOH Acidity; (mg KOH/mL)	250-350 mg max.

**APPLICATIONS:** NQ 1000 homopolymer inhibits deposition of calcium/magnesium (carbonates, sulphates), barium sulphate and other low solubility salts, which are responsible for the depositions of scale. The low molecular weight polymer shows good activity over a wide range of pH, high water hardness and temperature without precipitation.

**PACKAGING:** Available in 250kg. (551.15 lb.) non-returnable drums.

**SHELF LIFE:** At least one year when properly stored in unopened container.

**SAFETY:** Refer to MSDS for precautions.



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