



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

POLYMER

TDS-NQ5000_020110

Technical Bulletin

NORTH QUEST 5000 - Technical Data Sheet

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.



NORTHQUEST 5000

Description: NorthQuest 5000 is a low molecular weight carboxylate sulfonate terpolymer. It can be used in water treatment formulations to control calcium carbonate and calcium phosphate deposition even in the presence of heavy metals. NorthQuest 5000 is able to hold high levels of ortho phosphate in solution even at a pH of 9.0. This property enables operating cooling water systems at alkaline pH to minimize corrosion without having phosphate deposits. NorthQuest 5000 has very high dispersing properties towards silt, clay, silica and metal oxides.

Technical Specifications: (Carboxylate/Sulfonate/Maleic Ter-Polymer)

Appearance	Amber color clear liquid
Nature	Carboxylate/Sulfonate/Maleic Terpolymer
Mol. Wt.	5000
pH (neat) @ 25° C	2.1—2.6
Density @ 25° C	1.20 ±0.05 gm/cc
Viscosity, cps @ 25° C Brookfield	600—700 cps
Total Solids, (%)	45.5% ±1.5%
Solubility in Water	Complete

APPLICATIONS: NorthQuest 5000 provides excellent dispersions due to Sulphonate, carboxylate and maleic groups. These different groups offer different properties such as adsorption on the particle, ionic repulsion and static repulsion resulting in prevention of settling. High iron and silica tolerance.

PACKAGING: Available in 551.15 lb. (250 Kg) drums.

SAFETY: Refer to MSDS for precautions.



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