



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

NQ 599 11.17.2012

POLYMER

NORTHQUEST 599 - Technical Data Sheet

Technical Bulletin

NORTHQUEST 599

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 599 is a non-phosphorous, multifunctional polymer for scale and deposit control in industrial water treatment. A unique combination of chemical groups that inhibits scale deposit resulting from carbonate and sulfate salts of calcium/magnesium, as well as providing for excellent inhibition of calcium phosphate. The presence of carboxylic and sulfonic acid groups in the polymer enhances the ability to disperse iron oxide, silt, and clay particles, while providing better stability of Iron (Fe3+) and Zinc (Zn2+) ions in order to prevent metallic surface corrosion. In addition and in lower stress systems, the inhibition of calcium carbonate scale helps to avoid silica buildup.

Technical Specifications: (Multifunctional Ter-Polymer)

Appearance	Colorless to light yellow, transparent to slightly hazy liquid.
pH (neat) @ 25° C	< 2.00
Specific Gravity @ 25° C	1.15—1.20
Viscosity @ 25° C (Cps)	100—300
Total Solids, (%)	39—41 %

APPLICATIONS: NorthQuest 599 provides excellent calcium carbonate and calcium phosphate inhibition. High thermal stability. Excellent stability of metal oxides required for passivation.

PACKAGING: Available in 485 lb. (220 kg.) drums.

SAFETY: Refer to MSDS for precautions.



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