



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

POLYMER

Technical Bulletin

TB780_071411

NORTHQUEST 780

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 780 is a low molecular weight Carboxylate Co-polymer. Due to the presence of strong and weak acid functional groups, NORTHQuest 780 shows optimal scale inhibition efficiency through solubility enhancement by threshold effect, crystal modification and higher dispersing activity. NORTHQuest 780 is designed to provide superior stabilization of Calcium Phosphate and Calcium Phosphonate. It also demonstrates excellent stabilization of Zinc and Calcium Carbonate and works as a strong dispersant, holding the silt and other suspended solids in suspension and preventing fouling.

Features:

- Excellent Calcium Phosphate inhibition
- Moderate Calcium Carbonate inhibition
- Excellent Zinc stabilization and High Iron tolerance
- Excellent alternative to higher priced products like BSI 78

Technical Specifications: (Acrylic Co-polymer)

Appearance	Clear, colorless to pale yellow liquid
Nature	Acidic
pH (neat)	4.00—4.50
Specific Gravity @ 25° C	1.18—1.20
Viscosity @ 25° C, cps	100—200 cps
Molecular weight	around 4500
Total Solids	42.5—45.0%

APPLICATIONS: NorthQuest 780 is widely used in Cooling Water for phosphate/zinc or all organic based treatment programs. It has a synergistic effect with additives like phosphate or phosphonate in preventing scale as well as corrosion. It provides superior Iron tolerance in the presence of soluble Iron in the system.

PACKAGING: Available in 551.15 lb. drums.

SAFETY: Refer to MSDS for precautions.



NORTH METAL & CHEMICAL CO.
 P.O. Box 1904, 609 E. King St.
 York, PA 17402

Phone: (717) 845-8646
 FAX: (717) 846-7350
 Email: north@nmc-nic.com
 Web: www.nmc-nic.com

NORTHQUEST 780 - Technical Data Sheet