



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

Technical Bulletin

**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 400**

**Description:** NorthQuest 400 antiscalant has been developed as a calcium phosphate inhibitor and a multifunctional formulation support agent in industrial water systems and other related applications. The active ingredient of NorthQuest 400 is Phosphinocarboxylic Acid Co-Polymer. NorthQuest 400 is not affected by chlorine or other oxidizing biocides under normal use conditions. Test for compatibility with long chain nitrogen compounds, aliphatic amines and quaternary ammonium compounds.

**Technical Specifications:** (Phosphinocarboxylic Acid Co-Polymer)

Appearance	Clear to Light Yellow Turbid Liquid
Nature	Phosphinocarboxylic Acid Co-Polymer
pH (as-is) @ 25° C	1.5—2.5
Density @ 25° C	1.22 -1 1.25 gm/cc
Viscosity, cps @ 25° C Brookfield	225—450 cps
Total Solids, (%)	48 –52%
Solubility in Water	Complete

**APPLICATIONS:** NorthQuest 400 provides excellent calcium phosphate and calcium carbonate inhibition with compare to sulfonated polymers. Excellent thermal and chemical stability offering increased shelf life.

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

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



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