



**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 161/4161 (PCA)**

**Description:** NORTHQuest 161/4161 polymer combines features of both phosphonates and polyacrylate to deliver a unique balance of threshold inhibition and dispersancy. This product is resistant to chlorine and compatible with most microbiological control agents. NORTHQuest 161/4161 is an excellent alternative to the higher priced Belsperse 164 or Acumer 4161.

**Technical Specifications:** (Phosphinocarboxylic acid )  
 (CAS No. 71050-62-9)

Form	Clear, colorless to pale yellow liquid
Color, APHA	35 max
Odor	Slight
Solid content, % wt.	50—57%
pH Value (1% solution)	3.00—4.50
Specific Gravity @ 25° C	1.20 - 1.25
Viscosity; Brookfield @ 25° C, cps	500—2000 cps
Sequestration Value; (mg CaCO3/g)	1000 mg max.
KOH Acidity; (mg KOH/mL)	400 mg max.

**APPLICATIONS:** NQ161 is a highly effective scale control agent and dispersant used primarily in boilers and industrial cleaning. It effectively disperses particulate matter such as silt and clay and eliminates the need for phosphonates and acrylate polymers in many formulations. The product is non-foaming and has good environmental acceptability.

**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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