



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

NQ 2261 Version150826

Dry Polymer

Technical Bulletin

NORTHQUEST 5450

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: Terpolymer of Acrylic Acid

NorthQuest 5450 is a terpolymer, powder concentrate that was designed to perform as a thermally stable threshold inhibitor, dispersant, & crystal modifier for use in industrial water treatment & detergent applications. As a multifunctional additive, NQ 5450 enables operators to save on inventory cost/dependence by eliminating or reducing the need for certain raw materials (including acrylic homopolymers & copolymers) from their formulations.

Technical Specifications:

Appearance	Fine powder
pH (1% solution)	3.00 - 6.00
Color (Gardener)	White to off-white
Bulk Density	0.2 - 0.6
Loss on Drying (@ 105 C)	5.0 % max
Solubility	99.8 % min.

<u>Typical Formulation of Dry Products</u> <u>(Dosage=25ppm)</u>	<u>Water Hardness > 50 ppm</u>
Sodium Molybdate Dihydrate	20%
NORTHQUEST 5660 (HEDP-Na4 dry)	15%
NORTHQUEST 5450	25%
NORTH Tolyltriazole Granular	20%
Sodium Bicarbonate	20%

Packaging: Available in 55 lb. bags.

Storage: Store in a cool, dry well-ventilated area. Keep containers closed when not in use. Keep product isolated from incompatible materials/conditions. Avoid exposure to extreme temperatures, contact with incompatible chemicals, and uncontrolled contact with accelerants.

Shelf Life: At least one year if properly stored in unopened container.

Safety: Refer to MSDS for specific information.



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NORTHQUEST 5450 - Technical Data Sheet