



# NORTH METAL & CHEMICAL COMPANY

World Class Molybdenum & Tungsten Compounds  
Since 1921

POLYMER

## Technical Bulletin

### NORTHQUEST TP TL

#### 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 TP-TL is a Co-Polymer designed for use in chemical treatment of boiler waters. The addition of NorthQuest TP TL to the boiler water effectively prevents the accumulation of scale and sludge and disperses or conditions accumulated sludge enabling it to be removed by blowdown. NorthQuest TP TL prevents deposits from forming on the water side surfaces, maintains efficient heat transfer and decreases the incidence of boiler clean up, thus lowering operating costs.

#### Features:

- Excellent dispersions due to Sulphonate and Maleic groups.
- Excellent thermal and chemical stability
- High iron and silica tolerance
- Excellent alternative to the more costly Alco Versa TL4.

#### Technical Specifications: (Co-Polymer)

Appearance	Amber color; clear liquid
Nature	Sulphonated Styrene/Maleic Polymer
pH (as-is); @ 25° C	6.5—8.0
Density @ 25° C	1.20 ± 0.05 gm/cc
Viscosity, cps @ 25° C Brookfield	100—400 cps
Total Solids (%)	25 ± 1.5%
Solubility in Water	Complete

**STORAGE:** NorthQuest TP TL is non-flammable, non-combustible. It should be stored under shade and should not be exposed to direct sunlight.

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

**SAFETY:** NorthQuest TP TL is generally safe, but avoid contact with eyes and skin. Do not take internally. Gloves and goggles should be used while handling the product. 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](mailto:north@nmc-nic.com)

Web: [www.nmc-nic.com](http://www.nmc-nic.com)

TP TL - Technical Data Sheet