



NORTH METAL & CHEMICAL COMPANY

World Class Molybdenum & Tungsten Compounds

Since 1921

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Polymers

Technical Data Sheet

NorthQuest 4593 (PSO/PCA)

NorthQuest 4593 polymer combines features of both Phosphonates and Polyacrylates to deliver a unique balance of threshold inhibition and dispersion. This product is comparable to NorthQuest 161 but with the added benefit of increased halogen-breakdown-resistance. It has high resistance to chlorine and is compatible with most microbiological control agents. NQ4593 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. CAS# 71050-62-9

Technical Specifications: CH₃O₂P

| | |
|--|-----------------------------------|
| Appearance | Colorless, to pale yellow, liquid |
| Solids Content, % | 48.0 min |
| Specific Gravity | 1.200 - 1.300 |
| pH Value (1% solution) | 2.0 - 4.0 |
| Acid Value (mg NaOH/g) | 100 - 350 mg |
| Total Phosphoric Acid, PO ₄ % | 8.0 min |
| Color, APHA | 50 max |
| Brookfield Viscosity (@° 25C, CPS) | 250 max |

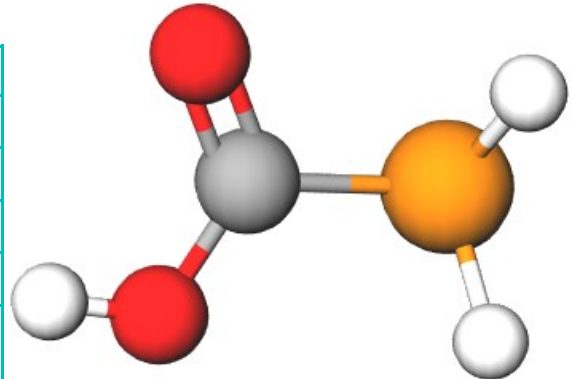


Image depicts Phosphinocarboxylic Acid

Packaging: Available in 529lb drums and 2646lb totes. Small packs available by request.

Storage: Store in a cool, dry area. Keep containers closed when not in use.

Shelf Life: At least three years if properly stored in unopened container.

Safety: Refer to MSDS for additional precautions.



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