



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

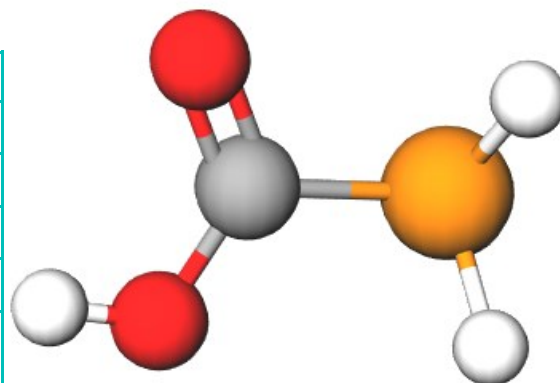


Image depicts Phosphinocarboxylic Acid

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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