



NORTH METAL & CHEMICAL COMPANY
World Class Molybdenum & Tungsten Compounds

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Since 1921

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Phosphonates

NorthQuest 5654 – Technical

Technical Data Sheet

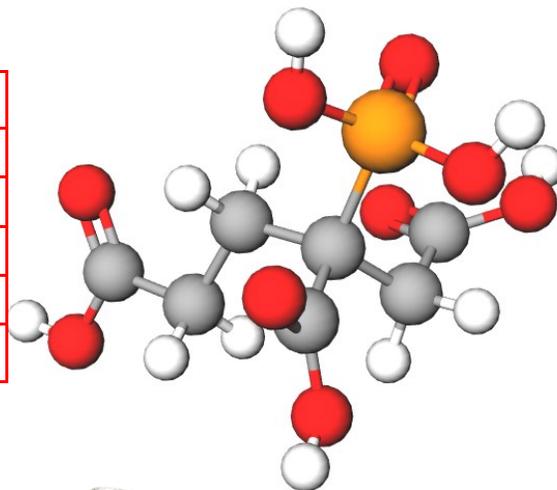
TETRA SODIUM SALT OF PHOSPHONOBUTANE TRICARBOXYLIC ACID DRY

NorthQuest 5654

Neutralized Phosphonobutane Tricarboxylic Acid, or **PBTC-Na₄**, has structural features of both phosphoric acid and carboxylic acid groups, which enable its excellent scale and corrosion inhibition properties. Its antiscaling property under high temperature, is far better than that of organophosphines. It can improve zinc salt solubility, has good chlorine oxidation tolerance, and good composite synergy. PBTC is used primarily as a corrosion inhibitor in boiler feed water, but has important applications as a chemical intermediate in insecticides, dry cleaning soaps, gas absorbents, rubber chemicals and plasticizers as well. CAS# 40372-66-5

Technical Specifications: C₇H₁₁O₉P-Na₄

Appearance	White crystal powder
Active Acid Content, %	67.0-73.0%
Active Content as PBTC-Na ₄ , %	88.0-97.0%
pH (1% solution)	6.5-8.5
Iron (Fe), ppm	35 ppm max
Total Phosphoric Acid, % PO ₄	23.5-25.5



Packaging: Available in 55lb drums

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

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

Safety: Refer to SDS for safety information.

