



Uniphos Chemicals

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XF-210 (PBTC) Scale and Corrosion Inhibitor

NSF Certified

XF-210 is a 50% aqueous solution of 2-phosphonobutane-1, 2, 4-tricarboxylic acid (PBTC), designed to control calcium scale formation and precipitation in highly stressed alkaline Industrial Water Treatment (IWT) and boiler systems. XF-210 has been widely used in industry as a sequestering agent and calcium carbonate scale inhibitor for applications in industrial water treatment and industrial cleaning. Because it is “chlorine stable”, it can also be used for scale control in applications where halogen-based biocides or hypochlorite bleach are employed.

Abbreviation	PBTC
Chemical Name	2-Phosphonobutane-1,2, 4-tricarboxylic acid
Molecular Formula	C ₇ H ₁₁ O ₉ P
Molecular Weight	270
CAS Number	37971-36-1
EC Number	253-733-5

Typical Properties

Appearance	Water white to pale yellow liquid
Active Content, %	48.0 – 52.0
pH (1% solution) @ 25°C	1.0 – 2.0
Sp. gravity @20°C, g/cm³	≥1.27
Chloride (ppm)	< 10
Iron (as Fe, ppm)	< 5
Phosphorous Acid(as PO₃⁻³)	<1.0%
O-phosphate (as PO₄⁻³)	<0.20 %
Hazen color, APHA (at dispatch)	80 Max.

Packaging

IBC/Tote, 210L PE drum, Bulk Tanker