

# Univer CLEAN 100

## Industrial Water Treatment Polymers

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Univer CLEAN 100, as a highly quality phosphate stabilizer, is scale and corrosion inhibitor for industrial cooling water systems that rely on the corrosion inhibiting properties of organic phosphonates. The product is highly effective dispersant and stabilizer for calcium carbonate, calcium phosphate, iron and zinc oxide.

### Typical Properties

Principal component : Polycarboxylic acid type high molecular surfactant

Appearance : Brown liquid

Active content : 43 %

[The residue is dried for 90 minutes by the infrared radiation - (alcohol insoluble matter)]

Solubility : Readily soluble in water and produces a transparent solution

Viscosity : 400 cps

Ionic : Anion

### Evaluation of CLEAN 100

#### Calcium Carbonate Scale inhibition Efficiency

Inhibition Efficiency for Calcium Carbonate		
Inhibitor	Mw (approx)	Inhibition Efficiency, %
None	-	0
Clean 100	2000	40
Condition Ca <sup>2+</sup> : 200mg/L as CaCO <sub>3</sub> HCO <sub>3</sub> <sup>-</sup> : 250mg/L as CaCO <sub>3</sub> CO <sub>3</sub> <sup>2-</sup> : 100mg/L as CaCO <sub>3</sub> pH : 11 Dosage : 50 ppm ( active polymer)		

#### Calcium Phosphate Scale inhibition Efficiency

The performance of CLEAN 100 as a calcium phosphate inhibitor and dispersant was compared with none.

Threshold Efficiency for Calcium Phosphate		
Inhibitor	Mw (approx)	Turbidity, NTU
None	-	80
Clean 100	2000	43
Condition : Ca <sup>2+</sup> : 200 ppm as CaCO <sub>3</sub> PO <sub>4</sub> <sup>3-</sup> :100ppm pH : 8.5 Dosage Level 50mg/l		

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### Thermal and Chemical Stability

CLEAN 100 has excellent thermal and chemical stability and can be used and stored over a broad range temperature and pH. It is not affected by chlorine or other oxidizing agents under normal use conditions. •  
Surfactant of Anion type

### Package

Drum 220Kg  
CNTR 1,200kg

The information given in this bulletin is to the best of our knowledge accurate. It is intended to be helpful but no warranty is expressed or implied regarding the accuracy of such data. This is a chemical product developed and produced for industrial use. It is strictly requested not to use this product(s) to the application to be taken into human body.

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