### Technical Data Sheet

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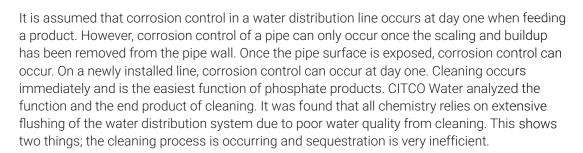
## CLARUS

#### Clarus

#### Patented Water Treatment Technology - 10,011,508

CITCO Water is committed to innovating new technology to enhance drinking water quality from the water treatment facility to the household. In our research facility, three major functions were studied with respect to water treatment: corrosion control, cleaning, and sequestration.

In the past, these functions were conducted with one type of chemistry: phosphates. Restrictions are growing tighter each day on the discharge limits of phosphorus for wastewater treatment facilities. With that in mind, CITCO Water has developed a chemistry with lowered phosphate concentration.



Sequestration in the water treatment industry is misunderstood. Sequestration occurs when sequestrants form soluble complexes and inactivate the cations from re-precipitating or rescaling. When water lines are cleaned, the end result is a large amount of black, red, or white precipitants that require maximum flushing. If a product is cleaning properly, one should expect it to also sequester properly as well. Clarus will control corrosion and clean the water distribution line by removing scale, tuberculation, and biofilm. However, when developing Clarus, CITCO Water focused on the sequestration of the heavy metals and soft metals such as iron, manganese, calcium, and magnesium and maintain a complete solubility of removed material.

Clarus has separated itself from other general chemistry with increased temperature and pH stability. Research and development has shown Clarus to clean, control corrosion, and sequester at temperatures over 250°F and pH levels as low as 4.6.









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# CLARUS

Specifications	
Components	Certified to NSF/ANSI/CAN 60
Appearance	Clarus Dry - white powder, Clarus L - clear liquid
Product Concentration	Clarus Dry - 100% by weight, Clarus L = 35% by weight
Density	11.4 lbs. per gallon
pH of 1% Solution	5.07
Scale/Corrosion Removal Range	varies with feed rate
pH Operating Range	4.6 - 9
Solvency In Water	Infinite
Certification	NSF, Standard 60, Approved
Temp. Stability Range	-25°F to above 250°F







