

Belclene® 283

www.wateradditives.com



Antiscalant and Zinc Stabilizer for Industrial Water Treatment

Description

Belclene 283 is a cost effective alternative to polyacrylate-based calcium carbonate antiscalants, for low to moderate LSI cooling applications, food applications, and Kraft pulp digester treatment.

Application

In cooling water formulations, Belclene 283 provides:

- Superior calcium carbonate scale inhibition when used alone or in combination with phosphonates.
- Both threshold inhibition and crystal modification.
- Stabilization of zinc in solution to give better corrosion control.
- Contains no phosphorus or heavy metals, making it ideal for all-organic programs.

Benefits

In formulations for use in food plants, Belclene 283 also provides:

- FDA approval for use in non-contact cooling and retort waters.
- Halogen stability. In pulp mill product formulations, Belclene 283 also provides:
- Superior calcium carbonate scale inhibition in Kamyrdigesters.
- FDA approval for use in pulp production where the paper that may contact food.
- Significant reductions in plant downtime for cleanings and repair.

Usage

*Please contact your Sales Manager for more information

Packaging / Weight

Drum	528 lb	240 kg
IBCs/Totes	2,204 lb	1,000 kg

*Consult your sales representative for availability

Physical Properties

Appearance	Clears to slightly turbid amber liquid
Odor	Slight
Solids content	48% w/w
Specific gravity	1.165 - 1.185 @ 20 °C
pH of undiluted product	<2
Viscosity	10 - 25 cSt @ 25 °C
Boiling range (760 mm Hg)	100-102°C (212-215°F)
Freezing point	-5 to -4°C (23-25°F)
Solubility in:	
-Water	Miscible
-Ethylene glycol	Miscible
-Methanol	Miscible
50% caustic soda	Readily neutralized with evolution of heat
pH limitations	To avoid precipitation, formulate below pH 2.5 or above pH 7.5. At concentrations Belclene 283 is stable across the entire pH range.

Further details are available in the safety data sheet



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