



Galatea

CRYSTALLIZATION SUPPRESSION ADDITIVE

Overview

Galatea is an easy to handle solid that can be added to calcium chloride (CaCl_2) solutions to increase the density of the fluid while lowering the true crystallization temperature (TCT). This allows the formulation of calcium chloride brines that can be used all year round with densities ranging from 11.6-12.1 lb/gal and TCT < 35°F.

Application Information

Winterized blends for CaCl_2 brines up to 12.1 lb/gal

Features and Benefits

- Allows formulation of low TCT CaCl_2 fluids. This stable, easy to handle solid is very water soluble and allows for increasing the density of a typical CaCl_2 fluid while reducing its TCT. For example, addition of only 5% of Galatea allows the TCT of a 11.6 ppg CaCl_2 fluid to be reduced by 20°F.
- No two-salt system required to achieved winter blends in the 11.6-12.1 lb/gal range for CaCl_2 brines.

Safety and Handling

Avoid skin and eye contact, inhalation, or ingestion. For skin contact, wash with soap and large quantities of water. For eye contact, flush with large quantities of water for a minimum of 15 minutes and seek medical attention. Use a properly designed respirator if adequate ventilation is not available. Refer to the Safety Data Sheet for specific details.

Physical Properties

Appearance	White powder
Odor	Sweet
Specific Gravity	1.5 g/cm ³
pH	7-9
Water Solubility	70% at 68°F

Recommended Treatment

2-15 wt.% total additive treatment based on desired density and TCT of the CaCl_2 brine. Projected ranges will be 11.6-12.1 lb/gal with TCT of 0-35°F. TETRA has blend tables that will allow the formulation of brines between 11.6 and 12.1 ppg for a whole range of desired TCT's.

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