



Zinc/Calcium Bromide/Calcium Chloride Solution

MULTI-SALT BLENDS

Overview

Zinc/Calcium Bromide/Calcium Chloride Solution is a three salt ($\text{CaCl}_2/\text{CaBr}_2/\text{ZnBr}_2$) brine fluid that is used as a completion, workover, or packer fluid.

It can be formulated to meet density and crystallization temperature requirements over a density range from 15.0 lb/gal to 19.2 lb/gal.

These blends are generally formulated using 14.2 ppg Calcium Bromide, 19.2 lb/gal, Calcium/Zinc Bromide, and Dry Calcium Chloride.

Features and Benefits

- Inhibitive properties can prevent hydration and migration of swelling clays.
- Can be blended with other clear brine fluids to achieve a specific density and crystallization temperature.
- Generally compatible with most oilfield elastomers, except nitriles.

Caution: Fluid additives, formation water and other contacting fluids should be screened for compatibility with the brine prior to use.

Physical Properties

Appearance	clear amber liquid
pH	< 4.0
Specific gravity	1.8 to 2.30 @ 60°F
Crystallization Temperature	Formulation Dependent

Packaging Information

Bulk Liquid

Recommended Treatment

Use the amount necessary for density adjustment. See blending tables or consult a TETRA representative for specific requirements.

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. Use properly designed respirator if adequate ventilation is not available. Refer to the Safety Data Sheet for specific details.

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