

COMPLETION FLUIDS & ADDITIVES PRODUCT

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 that may lead to 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.

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

RECOMMENDED TREATMENT

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

SAFETY AND HANDLING

- ▶ Please refer to the product's Safety Data Sheet.

PHYSICAL PROPERTIES

Appearance

Clear amber liquid

pH

< 4.0

Specific Gravity

1.8 to 2.30 @ 60°F (15.5°C)

Crystallization Temperature

Formulation dependent

PACKAGING INFORMATION

Bulk Liquid



Contact us to learn more at: www.onetetra.com

Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. Further, nothing contained herein shall be taken as a recommendation to manufacture or use any of the herein described materials or processes in violation of existing or future patents.