

CALCIUM BROMIDE BRINE SYSTEM

CALCIUM BROMIDE (CaBr₂) BRINE SYSTEMS are single-salt solutions used to form clear-brine workover and completion fluids with densities ranging from 8.4 to 15.3 lb/gal (1007 to 1833 kg/m³). The desired density is obtained by either mixing standard 14.2 lb/gal (1702 kg/m³) calcium bromide brine with dry calcium bromide (or water) or by simply mixing dry calcium bromide in water. CALCIUM BROMIDE BRINE SYSTEMS exhibit lower crystallization points than the corresponding calcium bromide/calcium chloride fluids.

TYPICAL PHYSICAL PROPERTIES

Physical appearance	Clear-to-amber liquid
pH (Neat)	Neutral
Clarity	Crystal clear, <3 NTU
Compatibility	Mixes readily with all other calcium- and zinc-base brines

APPLICATIONS

CALCIUM BROMIDE BRINE SYSTEMS are used during workover and completion operations which require densities from 8.4 to 15.3 lb/gal (1007 to 1833 kg/m³). They provide inhibition, preventing the hydration and migration of swelling clays, and can be used for packer fluids or to adjust the density of other brine systems.

CALCIUM BROMIDE BRINE SYSTEMS can be formulated with various crystallization points and are available for special applications and winter use.

Note: Use the Blending Tables to obtain the desired density and crystallization point.



TOXICITY AND HANDLING

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions as described on the Material Safety Data Sheet (MSDS).

Also observe the health hazard information and emergency and first aid procedures described on the MSDS.

PACKAGING AND STORAGE

CALCIUM BROMIDE BRINE SYSTEMS are packaged in bulk liquid quantities.

Store in appropriate corrosion-resistant brine containers and keep closed and firmly sealed. It is a

concentrated hygroscopic salt solution which will adsorb water from the air, reducing density if not properly stored.

This information is supplied solely for informational purposes and M-I LLC makes no guarantees or warranties, either expressed or implied, with respect to the accuracy and use of this data. All product warranties and guarantees shall be governed by the Standard Terms of Sale.



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