

# SODIUM BROMIDE/SODIUM CHLORIDE BRINE SYSTEM

SODIUM BROMIDE/SODIUM CHLORIDE (NaBr/NaCl) BRINE SYSTEMS are salt blends used to form clear-brine workover and completion fluids with densities ranging from 10.0 to 12.7 lb/gal (1198 to 1522 kg/m<sup>3</sup>). These systems are used as an alternative to calcium-base brines where formation waters contain high concentrations of bicarbonate and sulfate ions. SODIUM BROMIDE/SODIUM CHLORIDE BRINE SYSTEMS are also used to form non-damaging FLO-PRO® drill-in fluids.

## TYPICAL PHYSICAL PROPERTIES

Physical appearance	Clear liquid
pH (Neat)	7.0
Clarity	Crystal clear
Compatibility	Miscible with water and most formation brines

## APPLICATIONS

SODIUM BROMIDE/SODIUM CHLORIDE BRINE SYSTEMS are used for clear-brine workover and completion operations with densities to 12.7 lb/gal (1522 kg/m<sup>3</sup>). These systems eliminate the potential of formation damage due to the precipitation of carbonate, bicarbonate or sulfate compounds associated with using calcium-base brines where formation

waters contain high concentrations of bicarbonate and sulfate ions. A 12.5 lb/gal (1498 kg/m<sup>3</sup>) straight sodium bromide brine has a crystallization temperature of approximately 33°F (0°C).

**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

SODIUM BROMIDE/SODIUM CHLORIDE BRINE SYSTEMS are packaged in bulk liquid quantities.

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

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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