

SODIUM BROMIDE BRINE SYSTEM

SODIUM BROMIDE (NaBr) BRINE SYSTEMS are single-salt solutions used to form clear-brine workover and completion fluids with densities ranging from 8.4 to 12.5 lb/gal (1007 to 1498 kg/m³). They exhibit lower crystallization temperatures than the corresponding two-salt sodium bromide/sodium chloride fluids.

This system is used as an alternative to calcium-base brines where formation waters contain high concentrations of bicarbonate and sulfate ions. SODIUM BROMIDE BRINE SYSTEMS are also used to form non-damaging FLO-PRO[®] drill-in fluids.

TYPICAL PHYSICAL PROPERTIES

Physical appearance	Clear liquid
Specific gravity	1.0 – 1.5
pH (Neat)	7.0
Clarity	Crystal clear, <3 NTU
Compatibility	Miscible with water and most formation brines

APPLICATIONS

SODIUM BROMIDE BRINE SYSTEMS are used to form clear-brine workover and completion fluids with densities to 12.5 lb/gal (1498 kg/m³) where lower-crystallization-temperature or chlorides-free solutions are required. Using NaBr brines eliminates 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. The single-salt system is less likely to exhibit compatibility problems than the corresponding two-salt sodium bromide/sodium chloride fluid. A 12.5 lb/gal (1498 kg/m³) SODIUM BROMIDE BRINE has a crystallization temperature of approximately 33°F (0°C).

Note: Use the Blending Tables to obtain the desired density.



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 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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