

SODIUM BROMIDE (dry)

SODIUM BROMIDE (NaBr) powder is a single salt used to form clearbrine workover and completion fluids with densities ranging from 8.4 to 12.8 lb/gal (1007 to 1534 kg/m³). These fluids are used where formation pressures require densities from 8.4 to 12.8 lb/gal (1007 to 1534 kg/m³) or where the formation waters contain high concentrations of bicarbonate and sulfate ions.

NaBr can be mixed with NaCl to obtain densities up to 12.8 lb/gal (1534 kg/m³). NaBr/NaCl systems are more economical than pure NaBr solutions.

Typical Physical Properties

Physical appearance	White powder
Specific gravity	3.2 @ 68°F (20°C)
Solubility @ 68°F (20°C)	733 g/L

Applications

SODIUM BROMIDE is used in clear-brine completion or workover operations that require densities between 8.4 and 12.8 lb/gal (1007 to 1534 kg/m³). This system 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.

Fluids can be formulated with various crystallization points and are available for special applications and winter use. Use gentle agitation for thorough dispersion.

Note: Use Mixing Tables to obtain the desired density and crystallization temperature.

Advantages

- Mixes readily with all other calcium- and zinc-base brines.
- Eliminates the potential formation damage due to precipitation of carbonate, bicarbonate or sulfate compounds from calcium-base brines where formation waters contain high concentrations of bicarbonate and sulfate ions.

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Toxicity and handling requirements

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions as described on the Transportation and 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 (dry) is packaged in 55-lb (25-kg) bags.

Keep closed and firmly sealed. It is a concentrated hygroscopic salt that will absorb water from the air.

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