

Zinc-Calcium Bromide Liquor

Zinc-Calcium Bromide ($\text{ZnBr}_2\text{-CaBr}_2$) Liquor is often referred to as 54.5% Zinc Bromide and 19.5% Calcium Bromide. It is used for clear-brine workover, completion and packer fluids that require high density range of up to 2301 kg/m^3 (19.2 lb/gal). Being a high-density fluid, it can also be mixed with low-density brines to achieve specific density and crystallization point applications.

Typical Properties

Appearance	Clear Liquid
Assay, CaBr_2 (%)	20.0 – 25.0
Assay, ZnBr_2 (%)	50.0 – 55.0
Density @ 20°C (g/cm^3)	2.30 min
pH, 5% aqueous solution	2.0 – 6.0
Chloride (%)	0.50 max
Sulfate (%)	0.05 max

Application

Zinc-Calcium Bromide Liquor possesses inhibition effect which prevents hydration and migration of the swelling clay and can be used as a packer. It can be mixed with Calcium Chloride or Calcium Bromide brines to formulate and control the density and crystallization points for special application and winter use. Stir gently when mixing for thorough dispersion.

Recommended Handling

All personnel handling this material must handle it as an industrial chemical, wearing protective equipment and observing the precautions as described in the Safety Data Sheet (SDS).

Packaging and Storage

Packed in 1000 Litre IBC (Tote tank).

Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and /or stacking.

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