

TECHNICAL DATA SHEET

Potassium Formate Liquor

Potassium Formate Liquor is used to formulate high density and solids-free fluids in the operations of water-based drilling, completion, workover and fracturing, ranging in density from 1007 to 1570 kg/m³ (8.4 to 13.1 lb/gal). They eliminate the problems associated with precipitate formation that can occur when using calcium-base fluids in wells with high carbonate, bicarbonate or sulfate concentrations.

Typical Physical Properties

Appearance	Clear Liquid
Assay (%)	75.0 min
Specific Gravity @ 25°C (g/cm³)	1.570 min
pH, 10% aqueous solution	9.0 - 11.0
Turbidity, NTU	10.0 max

Application

Formate brine makes non-corrosive drilling and completion fluid formations that is stable in HTHP operations. Formate brine stabilizes shales, extend polymer stability and enhance borehole stability. Formate brine improves well productivity with excellent compatibility at reservoir conditions with reservoir fluids. Formate brine offers better hole cleaning and increases circulation rates by providing optimum hydraulic flow. Formate brine reduces potential formation damage resulting from clay swelling or clay dispersion or migration. These brines 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.

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 55 USG HDPE drum or 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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