

Sodium Formate - Dry

Description

Sodium formate (NaCHOO) is a high purity alkali metal salt of formic acid. This salt is readily soluble in water, yielding medium-density brine with low crystallization temperature. It is used to form clear brine for drilling, workover and completion operations which require densities ranging from 8.4 to 11.0 ppg (1,007 to 1,318 kg/m³).

The alkali metal cation (Na⁺) is monovalent, giving these brines their unique compatibility with biopolymers while at the same time contributing to their non-damaging behavior in reservoirs. It is non-toxic and biodegradable.

Applications

Sodium formate is used to formulate solid-free fluids with densities ranging from 8.4 to 11.0 ppg (1,007 to 1,318 kg/m³). Sodium formate has low rheological values when ran as a clean, solids free system which promotes turbulent flow to optimize horizontal wellbore cleaning.

Features and Benefits

- Cost effective solution for drilling when bicarbonate and sulfate ions are present in formation water.
- Enhances thermal stability of polymers
- Economical formate brine
- Alternative to chloride salts when chloride is prohibited for environmental reasons.

Typical Properties

Appearance	White crystal
Molecular Weight	68.01
Specific Gravity	1.92
Purity	96 %wt.
Solubility	97.2g/100mL@70 °F

Recommended Treatment

Add Sodium formate crystals gently through the rig hopper. Use the mixing table for desired density.

Safety and Handling

Prior to using this product, refer to the safety data sheet for information on use of personal protective equipment, safe handling, storage, transport, and disposal.

Packaging

Sodium formate is available in 55 lb (25 kg) bags and 1 MT sacks.

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