Product Bulletin

CESIUM FORMATE L

P1643.2001

WBM Drilling

Product Description

CESIUM FORMATE maximizes reservoir productivity and decrease drilling and completion costs.

Features and Benefits

CESIUM FORMATE is high temperature stable over long periods. Do not require the use of corrosion inhibitors. It eliminates the hazards and toxic liabilities associated with heavy bromide brines. It is a Ideal fluid to run sand screens in open hole completions. Removes the problem of gas migration in well control situations. Reduces barite sag. Maximizes logging capabilities and reservoir definition. Can increase ROPs with lower ECDs and high lubricity.

International Shipping References

Transportation of CESIUM FORMATE is not restricted by any regulatory agency.

Safe Handling Recommendations

Utilize normal precautions for employee protection when handling chemical products. Utilize appropriate respirator, gloves, goggles and apron. Refer to the Material Safety Data Sheet (MSDS) for this product prior to use.

Typical Physical Properties

- Physical State: Liquid
- Max Temperature: 400
- Reservoir Compatible: Reservoir
- Category: Brines
- Sub Category:
- Product Tier: Regular
- SG value: 2.25
- pH (Neat): > 10
- Specific Gravity (16 ?C): 2.15 - 2.40
- Turbidity: < 5.0 NTU
- Divalent Cations: <100 ppm
- Chlorides: <1000 ppm
- Appearance: Clear to yellow colour solution

Product Function

Cesium formate fluids can provide high density (up to 2.20 sg) and solids free, they do not require the addition of particles of weighing agents which damage reservoir productivity. CESIUM FORMATE only contains monovalent ions which are incapable of reacting with reservoir fluids to form scale.

Recommended Treatment

Standard Packing

CESIUM FORMATE liquid is packaged in 55 USG (200 liters) HDPE drums containing 312 kg.

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