

Potassium Formate 78%

Overview

Potassium formate at a concentration of 78% has become an essential component of oil well drilling, praised for its exceptional effectiveness and safety record. This salt of formic acid is particularly valued for its high density, which is critical to stabilizing wellbores and managing formation pressures. Moreover, its low viscosity makes it easy to handle and pump, reducing equipment stress.

The key qualities of potassium formate is its thermal stability, allowing it to maintain consistent performance even in the high temperatures encountered during drilling activities. This stability is essential for ensuring that fluid properties remain constant under varying downhole conditions.

Environmentally, potassium formate is considered a superior alternative to traditional drilling fluids due to its non-toxic and biodegradable nature. This aspect is essential in an industry facing increased environmental regulations and public scrutiny over ecological impacts.

The Potassium Formate enhances lubrication in drilling fluids, making it particularly useful in extended-reach drilling where reducing friction is critical. This improved lubrication leads to lower operational costs and less wear on drilling equipment. Additionally, it contributes to wellbore stability, reducing the risk of collapses and ensuring smoother operations. The use of 78% potassium formate in oil drilling is a testament to its outstanding performance, safety, and environmental responsibility. Its adoption optimizes drilling efficiency while aligning with the industry's growing trend towards more sustainable practices.

Specifications

Physical Form.....	Liquid
Appearance	Colorless to Yellow
Potassium Formate.....	≥75%
KCL as Cl- %	≤0.35
KOH, % ≤0.35	≤0.5
K ₂ CO ₃ , %	≤0.35
K ₂ S, %, %	≤0.4
Specific Gravity(20°C)	≥1.55

Packaging

- 25/50 Kg Pail
- 1200 Kg IBC Totes

Product Benefits

Potassium Formate 78% offers a range of benefits in oil drilling applications, making it a valuable component in the drilling fluid mix. Here are some of the key benefits:

Enhanced Wellbore Stability: The high density of Potassium Formate 78% helps maintain wellbore integrity, reduces the risk of collapses, and ensures smoother drilling operations.

Improved Lubrication: This compound significantly reduces friction in the drilling process, which is especially beneficial in extended-reach drilling. This leads to less wear on equipment and lowers operational costs.

Thermal Stability: Potassium Formate 78% remains stable under the high-temperature conditions typical in drilling operations, ensuring consistent performance and reducing the need for frequent fluid adjustments.

Environmentally Friendly: With its non-toxic and biodegradable properties, Potassium Formate 78% is an ecologically responsible choice, minimizing ecological impact and aligning with regulatory standards.

Reduced Corrosion: Its formulation helps minimize corrosion on drilling equipment, extending the life of the equipment and reducing maintenance costs.

Effective Pressure Control: The high density of the solution aids in effectively controlling formation pressures, which is crucial for safe and efficient drilling operations.

Compatibility with Other Drilling Fluids: Potassium Formate 78% is compatible with various other drilling fluid components, allowing for flexible formulation adjustments based on specific drilling conditions.

Reduced Formation Damage: Its use helps minimize the impact on the geological formation, preserving the reservoir's integrity and optimizing extraction.

Cost-Effective Operations: By enhancing drilling efficiency and reducing equipment wear, Potassium Formate 78% can lead to overall cost savings in drilling operations.

Easy Handling and Storage: Due to its low viscosity and non-toxic nature, Potassium Formate 78% is easy to handle and store, simplifying logistics and operating procedures on drilling sites.

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