KCL SUBSTITUTE †

CONCENTRATED LIQUID POTASSIUM CHLORIDE

BENEFITS

- Aids in borehole stabilization by reducing clay hydration.
- Performs in water-based fluids across a broad range of pH levels.

APPLICATIONS

- Effective substitute for potassium chloride as a shale inhibitor.
- 1 - 2 gallons per 24 bbl (1000 gallons) of base fluid is equivalent to 2%/wt dry potassium chloride.
- Higher concentrations may be necessary for sensitive clay formations. Pilot testing will aid to determine the appropriate concentration for a specific scenario.

PROPERTIES

- Appearance: Light amber liquid
- Specific Gravity: 1.1
- Solubility: Soluble in water

TREATMENT RECOMMENDATIONS

As a liquid additive, KCL SUBSTITUTE readily blends into water-based systems. Allow to blend completely before circulating. Typical concentrations of 1 to 2 gallons per 24 bbl (1000 gallons) of base fluid is equivalent to 2% wt of dry potassium. Higher concentrations may be necessary for highly sensitive clay formations. Pilot testing will aid to determine the appropriate concentration for a specific scenario.

PACKAGING AND HANDLING

KCL SUBSTITUTE is available in 5 gallon pails, 55 gallon drums, and 275 gallon totes. Handle KCL SUBSTITUTE as an industrial chemical, wearing protective equipment and observing precautions as described in the Safety Data Sheet (SDS).

In a lab test, a sample contaminated with shale is treated with KCL SUBSTITUTE (left). As a potassium chloride substitute, KCL SUBSTITUTE efficiently reduces shale hydration (right). Note the larger vortex as reactive clay is inhibited, thinning the fluid sample.

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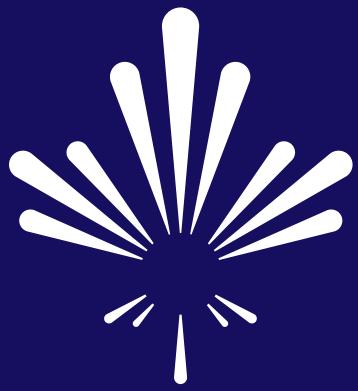
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