



**AES DRILLING FLUIDS**

## 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

## PHYSICAL PROPERTIES

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

# KCL SUBSTITUTE<sup>†</sup>

KCL SUBSTITUTE is a highly concentrated liquid potassium chloride substitute product designed to stabilize troublesome shales.



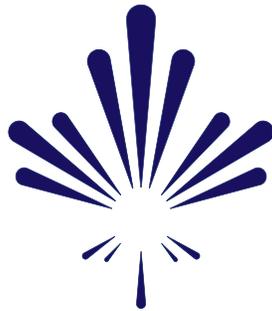
In a lab test, a sample contaminated with shale is treated with KCL SUBSTITUTE (left). As a potassium chloride substitute, KCL SUBSTITUTE efficiently reduces shale hydration (right). Note the larger vortex as reactive clay is inhibited, thinning the fluid sample.

## 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).



# **AES DRILLING FLUIDS**

[www.aesfluids.com](http://www.aesfluids.com)

[info@aesfluids.com](mailto:info@aesfluids.com)

**888-556-4533**

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