

# FLR PLUS<sup>†</sup>

HIGH PERFORMANCE FLUID LOSS

## BENEFITS

- Reduces API and HPHT fluid loss.
- Minimizes washout by stabilizing troublesome shales and sealing permeable sands.
- In most cases, FLR PLUS requires half the material versus conventional / standard performance products.

## APPLICATIONS

- 1 - 6 lb/bbl (typical), although higher concentrations may be necessary in extreme cases.
- Pilot testing will aid to determine the appropriate concentration for a specific scenario.

## PROPERTIES

- Appearance: Black Powder.
- Specific Gravity: 1.04 - 1.06
- Softening Point: > 300°F
- Moisture: < 1%

## TREATMENT RECOMMENDATIONS

FLR PLUS aids to lower API and HPHT fluid loss and stabilize troublesome shale formation. Treatments range from 1 - 6 lb/bbl in most cases, although under extreme conditions higher concentrations may be required.

Pilot testing can determine the appropriate concentration. FLR PLUS has a minimal impact on rheology and performs across a wide range of drilling fluid densities and temperatures.

## PACKAGING AND HANDLING

FLR PLUS is available in 50 lb sacks. Handle FLR PLUS as an industrial chemical, wearing protective equipment and observing precautions as described in the Safety Data Sheet (SDS).



In a lab test, a contaminated 10.5 lbm/gal conventional invert emulsion system demonstrated extremely high HPHT fluid loss and a thickened filter cake (up). A treatment of 4 lb/bbl FLR PLUS, dramatically reduced HPHT fluid loss and cake thickness (down).



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