

**AES DRILLING FLUIDS**

## BENEFITS

- Seals a wide range of pores and fractures
- Performs in any drilling fluid system
- Single sack solution reduces location inventory requirements

## APPLICATIONS

- 3-5 lb/bbl concentration typical for porous formations and 20-30 lb/bbl typical for fractures greater than 1,000 microns.
- Pilot testing will aid to determine the appropriate concentration for a specific scenario. Refer to an AES representative for a specific recommendation.

## PHYSICAL PROPERTIES

- Particle Size Distribution (Typical, microns)

D <sub>10</sub>	75
D <sub>50</sub>	300
D <sub>90</sub>	1600

- Appearance: Black particles
- Specific Gravity: 1.4 - 1.5

# ENERLOC<sup>†</sup>

ENERLOC is a proprietary blend of granular and fibrous lost circulation materials designed to rapidly seal pores and fractures during drilling operations



ENERLOC is a single sack blend with a black powder appearance



In this example slot test, 20 lb/bbl ENERLOC was added to an unweighted invert emulsion to seal the 1000 micron slot sealed at 500 psi

## Treatment Recommendations

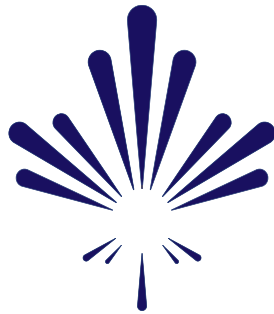
ENERLOC is a blend of dry additives added to the drilling fluid system to treat a wide variety of lost circulation scenarios through its special blend of sized particles. Lab testing can aid to optimize the necessary concentration for a specific scenario.

Porous formations typically require between 3-5 lb/bbl while fractures exceeding 1,000 microns typically require 20-30 lb/bbl. An AES representative should recommend the appropriate blend for the type of downhole losses.

As with any lost circulation material, confirm that surface and downhole equipment will tolerate the distribution and concentration of particles present prior to use.

## Packaging and Handling

ENERLOC is available in 40 lb sacks. Handle ENERLOC as an industrial chemical, wearing protective equipment and observing precautions as described in the Safety Data Sheet (SDS).



# **AES DRILLING FLUIDS**

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