

ENERLOC[†]



BENEFITS

Seals a wide range of pores and fractures

Performs in any drilling fluid system

Complements ECM 1[†] and ECM 2[†] to prevent and treat severe losses



APPLICATIONS

3 - 5 lb/bbl (typical) for porous formations and 20-30 lb/bbl for fractures greater than 1000 microns (typical)

Pilot testing will aid to determine the appropriate concentration for a specific scenario.



PHYSICAL PROPERTIES

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

ENERLOC is an optimized blend of granular and fibrous lost circulation materials designed to rapidly seal pores and fractures.



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 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. 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 1000 microns typically require 20 - 30 lb/bbl. An AES representative should recommend the appropriate blend for the type of downhole losses. A combination of 10 lb/bbl ECM 1, 10 lb/bbl ECM 2, and 10 lb/bbl ENERLOC is consistently effective in many loss scenarios.

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

Particle Size Distribution
(typical, microns)

D ₁₀	57
D ₅₀	491
D ₉₀	1921

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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