

# PERMASEAL<sup>†</sup>

PROPRIETARY BLEND OF GRAPHITE AND MINERAL FIBER MATERIALS

## BENEFITS

- Seals lost circulation zones with minimal filter cake buildup.
- Does not alter fluid properties (inert solid).

## APPLICATIONS

- 10 - 50 lb/bbl for sweeps or 3 - 7 lb/bbl for seepage loss control (typical).
- Bactericide not required.

## PROPERTIES

- Appearance: Black powder
- Specific Gravity: 1.9 - 2.1

## TREATMENT RECOMMENDATIONS

Lost circulations treatments vary by severity. When used in sweeps, typical concentrations range from 10 to 50 lb/bbl. As part of the active system, concentrations usually range from 3 to 7 lb/bbl.

PERMASEAL is compatible with water -and oil-based drilling fluids and works well in combination with other lost circulation material.

Particle Size Distribution  
(typical, microns)

D <sub>10</sub>	45
D <sub>50</sub>	350
D <sub>90</sub>	1700

## PACKAGING AND HANDLING

PERMASEAL is available in 25 lb sacks. Handle PERMASEAL as an industrial chemical, wearing protective equipment and observing precautions as described in the Safety Data Sheet (SDS).



PERMASEAL  
lost circulation  
additive.





**AES DRILLING FLUIDS**

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Revision 1.01