

AES DRILLING FLUIDS

BENEFITS

- Seals lost circulation zones with minimal filter cake buildup
- Designed to minimize downhole risk
- Does not alter fluid properties (inert solid)

APPLICATIONS

- Typically added at 10 - 50 lb/bbl concentration for sweeps or 3 - 7 lb/bbl for seepage loss control
- Bactericide not required

PHYSICAL PROPERTIES

- Particle size distribution (Typical Percent retained, microns)

D ₁₀	10
D ₅₀	65
D ₉₀	470

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

PERMASEAL[†]

PERMASEAL is a proprietary blend of graphitic and mineral fibrous materials designed to promote rapid bridging and sealing of lost circulation zones in both water- and oil-based fluids.



PERMASEAL lost circulation additive

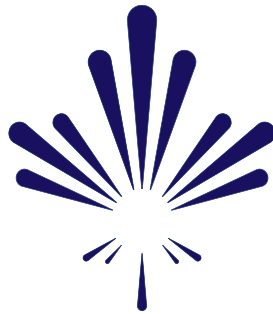
Treatment Recommendations

Lost circulation 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.

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).



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