

# SHIELD BOND<sup>®</sup> LC<sub>1k</sub>

Wellbore Shielding<sup>®</sup> Spacer Additive for Lost Circulation



## Product Specifications



### DESCRIPTION

SHIELD BOND<sup>®</sup> LC<sub>1k</sub> lost circulation additive is added to the SHIELD BOND<sup>®</sup> wellbore shielding<sup>®</sup> spacer system to remediate against moderate to severe losses. SHIELD BOND LC<sub>1k</sub> is formulated to prevent losses with fracture sizes up to 1,000 microns and permeability's up to 3500 darcies.

### ADVANTAGE

Enhances the SHIELD BOND spacer system's effectiveness when losses are problematic

Effective at sealing a wide range of fracture widths in various formations

Withstand differential pressures >1000psi

### APPLICATION

Used during partial to severe lost circulation where fracture sizes of 1,000 microns exist.

Used in high permeability formations, unconsolidated and fractured formations when losses were observed during the drilling phase.

### ENVIRONMENTAL ADVANTAGE

Environmentally compliant for use in all areas

PLONOR listed for North Sea use, HMCS Category P, OCNS Group E

Passes the North America 96-hr LC50 bioassay mysid shrimp

### TREATMENT RECOMMENDATIONS

For seepage losses recommended treatment ranges from 10-20 lb/bbl

For moderate to severe lost circulation recommended treatments of 20-30 lb/bbl

### PHYSICAL PROPERTIES

Appearance: Coarse, brown powder

Temperature: 400 F (204 C)

Specific gravity 1.46 g/cm<sup>3</sup>

### HANDLING AND STORAGE

SHIELD BOND LC<sub>1k</sub> should be stored in a dry environment. Avoid excessive dust and inhalation. Use appropriate PPE and review the SDS before use.

### PACKAGING

SHIELD BOND LC<sub>1k</sub> is available in 25-lb, multiwalled bags. 1250 pounds per pallet (50 sacks).