

# SHIELD BOND®

## Wellbore Shielding® Spacer



## Product Specifications



### DESCRIPTION

SHIELD BOND wellbore shielding® spacer system helps prepare the wellbore for cementing. The spacer system forms an impermeable shield on the formation face, mitigating lost circulation issues before cement enters the annulus and reduces loss of cement. SHIELD BOND also helps reduce fluid invasion, and allows safe operations slightly above the frac gradient to handle the typical high equivalent circulating density (ECD) near the end of the displacement in wells where the fracture gradient has traditionally limited the design of the cement job.

### ADVANTAGE

Adjustable rheology

Extends the frac gradient for higher ECDs

Enhances hole cleaning and mud removal prior to cement placement

Forms a shield against the formation to limit fluid invasion

Reduces cement losses and formation damage

### APPLICATION

Used in fragile and fractured formations

When circulating drill fluid is an issue

In wells where pre-job simulations show final ECD near or above the frac gradient

When the capability to mix on-the-fly with a weighted spacer is preferred

### 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

Base concentration can and should be optimized to meet well objectives. Standard concentration is 15 lb spacer concentrate per barrel of mix water (One sack of spacer concentrate yields 3 barrels of spacer).

### PHYSICAL PROPERTIES

Appearance: light brown powder

Temperature range: up to 135°C (275°F)

Specific gravity: 1.8 g/cm<sup>3</sup> (15.02 lb/gal)

### HANDLING AND STORAGE

SHIELD BOND® should be stored in a dry environment. Avoid excessive dust and inhalation. Use appropriate PPE and review the SDS before use.

### PACKAGING

SHIELD BOND® is available in 45-lb, multiwalled bags. 2475 pounds per pallet (55 sacks).