

CEMSHIELD™

Cement Spacer for Onshore Applications



Product Specifications



DESCRIPTION

CEMSHIELD™ spacer is the newest cement spacer system designed for use in North American shale plays and onshore applications. Built on award-winning technology, the CEMSHIELD spacer system efficiently prepares the wellbore for cementing. It forms an impermeable shield on the formation face, mitigating lost circulation issues during cementing and minimizing cement loss in the annulus. CEMSHIELD spacer minimizes fluid invasion and enables safe operations above the fracture gradient. This is especially valuable in wells where the fracture gradient traditionally limits cement job design due to high equivalent circulating density (ECD) near the end of the displacement.

ADVANTAGE

Enhanced rheology, compatibility, and thermal stability

Increases manufacturing efficiency, reducing time and carbon footprint

Effectively seals slots up to 350 microns

Adjustable rheology to suit specific requirements

Extends the fracture gradient for higher equivalent circulating densities (ECDs)

Improves hole cleaning and facilitates mud removal prior to cement placement

Creates a barrier against the formation, minimizing fluid invasion

Reduces cement losses and limits formation damage

APPLICATION

CEMSHIELD spacer efficiently cleans the wellbore and prevents lost circulation in permeable formations

Minimizes fluid invasion into the formation, enhancing the well's performance

Suitable for use in fragile and fractured formations

Ideal for situations where circulating drill fluid is problematic

Useful in wells where pre-job simulations indicate a final equivalent circulating density (ECD) near or above the fracture gradient

Preferred when the ability to mix on-the-fly with a weighted spacer is desired.

ENVIRONMENTAL ADVANTAGE

North American environmental compliance, CEMSHIELD passed the 96-Hour LC50 Definitive test.

TREATMENT RECOMMENDATIONS

The base concentration of spacer concentrate can and should be optimized to achieve the desired well objectives. The recommended typical standard concentration is 15 pounds of spacer concentrate per barrel of mix water. One sack of spacer concentrate can produce three barrels of spacer.

PHYSICAL PROPERTIES

Appearance: light brown powder with small white flecks

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

Specific gravity: 1.75-1.85 S.G

pH (1% in water): pH 9-11

Odor: Odorless

Non-flammable

HANDLING AND STORAGE

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

PACKAGING

CEMSHIELD spacer is available in 45-lb, multi-walled bags. 2,475 pounds per pallet (55 sacks).