

MS Spacer

Membrane Sealing Spacer

General Description

Filtrates from cement slurries can damage producing formations, adversely affect production, and require unscheduled stimulation treatments to address the problem. In addition, the increased equivalent circulating density (ECD) generated by pumping cement slurries can lead to induced losses and contribute to poor quality cement job.

The Riteks MS Spacer system is used to help mitigate lost circulation issues while cementing. It can minimize filtrate invasion and damage, and induced losses. Based on its ultralow invasion fluid technology, this system forms a barrier at the wellbore wall to strengthen the wellbore. The formation can retain its integrity and permeability for optimized production because of the near 100% return permeability property of the spacer.

MS Spacer reduces slurry fallback after placement, which prevents induced losses and eliminates costly remedial cement jobs. In wells with critical fracture gradients, Riteks MS Spacer technology enables the use of standard slurry designs and densities where highly extended or special lightweight slurries were previously required. This eliminates the need to compromise on thickening times and compressive strength.

MS Spacer as a free-flowing powder can be dry-blended before it is transported to the job site and can be easily dissolved in the mixing water.

Features and Benefits

- Forms a seal to minimize filtrate invasion into formation.
- Effectively reduces cement losses and formation damage from filtrate migration
- Enhances hole cleaning prior to cement placement, effectively removing gelled drilling fluid by optimizing flow regime, density and chemical enhancement
- Prevents cement fallback after placement, providing predictable and effective isolation
- Allows increased ECD at casing depth in wells where the fracture gradient limits design density of the cement
- Provides wellbore strengthening; reduces incidents of induced losses
- Compatible with virtually all cement systems and drilling fluids

Applications

Used at the recommended levels of 15 to 30 pounds per barrel, MS Spacer System can be used in:

- Primary cementing operations
- Typical temperature ranges of 40 to 400°F (4 to 205°C) BHCT.

Typical Properties

Appearance: Tan-brownish powder

Specific Gravity: 1.8 – 1.9

Absolute Volume: ~0.0648

Bulk Density: 47.35 lb/ft³

Active Content, %: 100%

Typical properties given do not constitute a supply specification.

Packaging/Storage

Available in 30 lb / 13.6 kg paper bags.

Store in a cool, dry, well-ventilated area.

Health and Environmental Data

Before handling or using this product please refer to the Data Sheet for complete health, safety and environmental information. Dispose of waste in accordance with local, state and federal regulations.

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