

Riteks RSP-4D

Dry Surfactant Package for Oilfield Use

General Description

Riteks RSP-4D is a blend of surfactants delivered in powder form to be used in cement spacers, chemical washes, and drilling fluids as a water wetting agent. Riteks RSP-4D is added to the spacer pill to enhance the cleanout of oil substrates through an ultra-low interfacial tension, helps leave the pipe and formation in a water-wet condition, and is applicable over a wide temperature range.

It was developed to improve the efficiencies in dosing and to allow a true 'on-the-fly' spacer or chemical wash system, in combination with Riteks MS Spacer. Riteks RSP-4D surfactant acts as a degreaser, provides water wetting properties, promotes cement bonding, and helps to assure rheological compatibility in between oil-based (OBM) or synthetic-based (SBM) muds and the spacer.

Features & Benefits

When added to spacers, Riteks RSP-4D offers the following benefits:

- Helps improve spacer performance when displacing oil-based mud systems
- Facilitates the removal of filter cake buildup while improving cement bonds
- Designed to reduce interfacial viscosity and preferentially water-wet the pipe and formation to promote better cement bonding
- Aids in the rheological compatibility between the wash/spacer and oil-based (OBM) or synthetic-based (SBM) muds

RSP-4D can also be added to water base drilling fluids to reduce the surface tension, thereby promoting solids-wetting and reducing pumping pressure. It also helps reduce wear on surface mud system expendables, reduces friction and torque in wellbore, prevents bit-balling, mud rings, filter cake build-up on drill strings and increases penetration rate and bit life.

Typical Properties

- Appearance: Off-white Powder
- Specific Gravity: 2.11
- Absolute Volume: 0.0568
- Bulk Density, lb/ft³: ~54
- Solubility: Soluble in Water

Typical properties given do not constitute a supply specification.

Mixing and Dosage

Riteks RSP-4D is added directly to the spacer fluid, chemical wash, or drilling fluids at concentration ranging from 3 - 5ppb.

Riteks RSP-4D helps to promote the proper amount of surfactant dosage for each job by being added in a controlled environment. Since each drilling mud system tends to be unique, laboratory testing is recommended to determine appropriate surfactant concentration levels.

Health and Environmental Data

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

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