

AFS RCD-4

Polycarboxylate Ether (PCE) Dispersant

General Description

Riteks RCD-4 provides superior dispersing power compared to conventional dispersants up to minimum 250°F (120°C). RCD-4 is a high-range water-reducing admixture powder utilizing superior polycarboxylate chemistry to achieve low and stable rheology at significantly lower dosage rates than with standard dispersants.

This chemistry also offer a very high salt tolerance up to 18% NaCl & widens the field of potential applications significantly. RCD-4 can show retarding properties, although is often used in CaCl₂ accelerated cement slurries and aids in reducing shrinkage during accelerated cement set.

Feature and Benefits

- Provides turbulent flow properties, improving mud cleanup and cement bonding
- Facilitates mixing of high-density, reduced-water slurries
- Reduces mixing and final slurry viscosity
- Provides less retardation than conventional dispersants, resulting in earlier strength development
- Inhibits viscosifying effects caused by some fluid loss and gas control additives
- Improves annular displacement, reducing cement contamination
- Improves the performance of gas control and fluid loss additives
- Improves bonding to the formation and pipe
- Compatible with virtually all API, ASTM and pozzolan cements, and most Riteks cement additives

Loading Levels and Applications

Used at the recommended levels of 0.1 to 1% by weight of cement, AFS Dispersant-RS 5 can be used in:

- Primary and remedial cementing operations
- High-density and/or low fluid loss slurries
- Salt and salt-saturated slurries
- Typical temperature ranges of 40 to 400°F (4 to 204°C) BHCT.

Typical Properties

Appearance: Reddish-brown powder
Moisture, %: < 8.0
pH: 10 - 12
Specific Gravity: 1.152
Absolute Volume: 0.1040 gal/lb (0.8679 L/kg)
Bulk Density: 37.5 lb/ft³ (600.0 kg/m³)
Active Content, %: >90

Typical properties given do not constitute a supply specification

Packaging/Storage

Available in 50 lb / 22 kg paper bags

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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