



IntegraGuard™ Ultra

IMPROVING MUD CLEANUP FOR BETTER CEMENT BONDING

APPLICATIONS

- Primary and remedial cementing operations
- Vertical, deviated and horizontal wells

FEATURES & BENEFITS

- Improves mud cleanup for better cement bonding
- Improves bonding to the formation and pipe
- Effective in a wide range of good temperatures
- Compatible with most water- and oil-based drilling muds by varying the surfactant packages
- Easily prepared and pumped with conventional cementing equipment

OVERVIEW

Preceding the cement, IntegraGuard Ultra enhances mud displacement efficiency and prevents cement slurry contamination. At high temperatures and densities, or when additional viscosity is required, this spacer should be used.

IntegraGuard Ultra spacer polymer is typically provided as a liquid concentrate, making it easy to prepare on the rig site. For extreme, low-temperature environments, the dry powder version may be preferred. With the aid of different surfactant packages, IntegraGuard Ultra spacer system can be used with most non-aqueous drilling fluids. This spacer is effective in a wide range of well temperatures and can be prepared at densities up to 20 ppg.

TYPICAL PROPERTIES

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|---------------------------|------------------|
| TYPICAL DENSITY RANGE | 9 to 20 ppg |
| TYPICAL TEMPERATURE RANGE | Up to 325°F BHCT |