

Drill-Thin[®] Thinner



A DIVISION OF CHEVRON PHILLIPS
CHEMICAL COMPANY LP

Drill-Thin[®] Thinner is an environmentally compatible, high-performance, multipurpose mud conditioner for rheology control in water-based muds. It is a modified tannin compound that replaces chrome lignosulfonates. Drill-Thin[®] Thinner works where other additives fail.

Advantages of Drill-Thin[®] Thinner include:

- Contains no chrome yet is superior to commonly used thinners containing chrome
- Maximum deflocculation and shear strength reduction at low concentrations
- Excellent performance at low concentrations
- Superior performance, tolerating salt and gypsum contamination
- Soluble in systems of high salinity, high hardness, and at any pH
- Approximately 4 to 8 times more effective than chrome lignosulfonates, depending on conditions
- Scavenges oxygen and inhibits corrosion
- High-temperature rheology control - proven effective in excess of 400°F (204°C)
- Solution pH is approximately 8.5 - no caustic needed to activate works equally well in low-pH and high-pH systems

Cost

Drill-Thin[®] Thinner is extremely cost effective. Pound for pound, it is significantly more powerful than chrome lignosulfonate thinners. Total well costs are often lower as a result of fewer mud problems and less rig time. Drill-Thin[®] Thinners high potency results in lower costs for trucking, inventory, and handling

Mud Types

Most water-based mud formulations

Mixing Requirements

Mix through hopper

Handling

For specific instruction on handling refer to the MSDS.

Packaging

25-pound, multiwall paper sacks

Application	Material Needed
Low pH Desco [®] Deflocculant System	1 to 4 ppb (3.0 to 11 kg/m ³) depending on MBT & mud weight
Defoamer in salt water muds	0.1 to 0.25 ppb (0.3 to 2.0 kg/m ³)
Top hole and low solids, semi-dispersed muds	0.1 to 0.5 ppb (0.3 to 2.0 kg/m ³)
Supplement lignosulfonate, lignite muds	Ratio of 4 lignosulfonate or lignite to 1 Drill-Thin [®] Thinner
Deep, hot drilling where lignosulfonates degrade	Ratio of 4 lignosulfonate to 1 Drill-Thin [®] Thinner
Saturated salt, inhibited or contaminated muds	0.25 to 3.0 ppb (0.7 to 9.0 kg/m ³)
Conditioning drilling mud for packer mud (any density)	0.5 to 3.0 ppb (2.0 to 9.0 kg/m ³)
Cement preflush	2.0 to 3.0 ppb (6.0 to 9.0 kg/m ³)

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Drilling Specialties Company does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.