

## DRILSTAR HT

### DESCRIPTION

Drilstar HT is a Premium Quality white cornstarch, which provides a rapid reduction of API fluid loss at minimum concentrations.

### PROPERTIES

Physical		Chemical	
Appearance:	White granular powder	Type:	Pregelatinized cornstarch
Specific Gravity:	Not available	Solubility:	Soluble (water)
Bulk Density:	512-560 kg/m <sup>3</sup>	pH:	5.0-7.0 (4% solution)
Flash Point:	Not applicable	Microtox:	=47% @ (8.0 kg/m <sup>3</sup> )

### APPLICATION

Drilstar HT provides fluid loss control in all water based mud systems. In particular Drilstar HT finds applications in high hardness, high pH, gypsum muds where bottom hole temperatures are not excessive. Drilstar HT is effective to temperatures of 120°C. Drilstar HT performs best in an alkaline environment and will not increase the rheological properties of the mud system in which it is used. In the absence of a high pH and/or high salinity a bactericide such as T-352 should be used to prevent bacterial decomposition.

Drilstar HT is used in concentrations ranging from 8.0-25.0 kg/m<sup>3</sup> depending somewhat on the amount of drilled solids present in the mud system. Oxygen scavengers should be used to reduce thermal degradation.

***Caution:** It has been demonstrated that produced crude oils can contain very persistent bacterial strains that may cause fermentation problems in mud systems with susceptible organic matter such as starch. Much larger treatment doses and/or addition of a secondary biocide may be required when crude oil is added to these drilling fluids.*

### MIXING AND HANDLING

Drilstar HT mixes readily. It may be added through the hopper at rates of 5-10 minutes per sack when required. It is advisable to use a dust mask while Drilstar HT is being mixed.

<b>WHMIS:</b> Not controlled	<b>TDG:</b> Not regulated	<b>PACKAGING:</b> 50 lb sack
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