



## STARDRIL

### DESCRIPTION

Stardril is a highly derivitized complexed polyose specifically developed as a filtration control additive for drilling and completion fluids in the Canadian market. STARDRIL has a microtox threshold, which exceeds normal use concentrations.

### PROPERTIES

Physical		Chemical	
Appearance:	Off-white powder	Type:	Modified polysaccharide
Bulk Density:	35-45 lb/ft <sup>3</sup>	Solubility:	Soluble (100% water)
Moisture		pH:	10.0-11.0
Content:	6-10%	Microtox:	MTX (27.0 kg/m <sup>3</sup> )

### APPLICATION

Stardril exhibits fluid loss control efficiencies closer to the cellulose and better than regular starches. The synergistic behavior of Stardril with bentonite and other polymers enhances the shear thinning properties of a drilling fluid thus providing excellent hole cleaning at low shear rates.

Modified starches are able to coat clay and shale particles to control clay dispersion and slow the destabilization of a well bore. This encapsulate feature helps facilitates drilled solids removal on surface.

With the addition of an oxygen scavenger, Stardril can be temperature stable up to 150°C is non-fermenting and requires no biocide under normal conditions. It is also stable against drilling fluid enzyme contamination that could result in viscosity breakdown.

Stardril is used in concentrations ranging from 5.0-25.0 kg/m<sup>3</sup> depending on fluid loss requirements and the amount of solids in the system.

### MIXING AND HANDLING

Stardril mixes readily and may be added to a mud system through the hopper at 10-15 minutes per sack. It is advisable to use a dust mask and eye protection while mixing all powdered products.

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