

PRODUCT DATA SHEET

AQUA – STAR EX

DESCRIPTION

AQUA-STAR EX is a derivitized complex polyose (starch) specifically developed as a filtration control additive for drilling and completion fluids in the Canadian market. **AQUA-STAR EX** has a microtox threshold that exceeds the requirements for "LWD" disposals.

PROPERTIES

Physical	Chemical
Appearance: Off white powder	Type: Modified polysaccharide
Bulk Density: 35-45 lb/ft ³	Solubility: Soluble (100% water)
Moisture Content: 6 – 10%	pH: 10.0-11.0 (2% sol.)
	Microtox: MTX (27.0 kg/m ³)

APPLICATION

AQUA-STAR EX exhibits fluid loss control efficiencies closer to the cellulose and better than regular starches. At higher concentrations (10.0-20.0 kg/m³), **AQUA-STAR EX** provides excellent lubricity, ultra-low fluid losses, and little or no effect on rheological properties. Modified starches are able to coat clay and shale particles thereby controlling dispersion and slowing the destabilization of a well bore. This encapsulation feature also helps facilitate the removal of drilled solids by surface equipment.

AQUA-STAR EX is effective in all types of water-based fluids at any pH level and is stable to 150° C with the use of an oxygen scavenger.

AQUA-STAR EX is used in concentrations ranging from 5.0-25.0 kg/m³ depending on fluid loss requirements and the amount of solids in the system.

MIXING AND HANDLING

AQUA-STAR EX 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.

WHMIS: Not controlled	TDG: Not regulated	PACKAGING: 50 lb sack
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