

# 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 Bulk Density: 35-45 lb/ft <sup>3</sup> Moisture Content: 6 – 10%	Type: Modified polysaccharide Solubility: Soluble (100% water) pH: 10.0-11.0 (2% sol.) Microtox: MTX (27.0 kg/m <sup>3</sup> )

## 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/m<sup>3</sup>), **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/m<sup>3</sup> 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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