

MODIFIED STARCH

FILTRATION CONTROL ADDITIVE

Modified Starch is a highly derivatized polysaccharide specifically developed as a filtration control additive for drilling and completion fluids.

The product was developed to meet the more stringent Canadian market requirements.

MIXING & HANDLING

Modified Starch is more efficient than regular starches and nearly as efficient as PAC at controlling fluid loss. It has a synergistic effect with bentonite and other polymers which enhances the shear thinning properties of drilling fluids and results in excellent hole cleaning at low shear rates. **Modified Starch** can also coat clay and shale particles to control clay dispersion, slow well bore destabilization, and facilitate the removal of drilled solids on surface.

Modified Starch can be combined with PAC as a low cost extender. Blends typically contain 1:1 – 3:1 Modified Starch/PAC.

Modified Starch is effective in all types of water-based fluids and at temperature up to 150°C with the use of an oxygen scavenger. It is non-fermenting and requires no biocide under normal conditions. Filter cakes containing **Modified Starch** can be easily removed using Can-Break ECA.

Modified Starch is used in concentrations ranging from 4.0-12.0 kg/m³, depending on fluid loss requirements and the amount of solids in the system.

MIXING & HANDLING

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

WHMIS: Not controlled

TDG: Not regulated

Packaging: 50lb sack

PHYSICAL PROPERTIES:

Appearance: Off-white powder

Bulk Density: 480-640 kg/m³

Moisture Content: 6-10%

CHEMICAL PROPERTIES:

Type: Modified polysaccharide

Solubility: Soluble in water

pH: 9.0 - 10.5

Microtox: 10.68 kg/m³

