

Starlose® P-100

Starlose® P-100 is a cold-water soluble low viscosity, non-ionic starch polymer for use in all water-based drilling, completion and stimulation fluids. Starlose P-100 polymer is a natural polysaccharide designed to provide rapid, economical filtration control in a variety of oil and gas operations. Biocide addition during the manufacturing process enhances performance in many drilling environments. Starlose P-100 is a premium grade potato-based product. It provides superior fluid loss control to 250° F in high-hardness, high-pH and gypsum muds. Starlose P-100 also finds applications in stimulation product blends where enzymatic breakers are used to assist cleanup.

Starlose P-100 polymer meets API specifications according to Spec 13A, Section 11.

Starlose P-100 is permitted for use in the Gulf of Mexico. In addition Starlose P-100 was tested to be non-toxic to Mysid shrimp according to the protocol of 58 FR 63964 as specified in the general NPDES permit for oil and gas activities on the Gulf of Mexico OCS.

Hydration

Starlose P-100 hydrates quickly in cold water. During production, the polymer undergoes a pre-gelatinization process that converts the polymers from an insoluble form to a cold-water dispersible form.

Appearance

Starlose P-100 is a free-flowing, off-white powder with opaque to translucent aqueous solutions.

Solution Preservation

Starlose P-100 is treated with a biocide during the manufacturing process. Under normal operating conditions, mud systems containing Starlose P-100 are stable from microbial and enzymatic attack.

Storage, Handling and Safety

Because of the hygroscopic nature of Starlose P-100, it is highly recommended that the material be stored in its original package in a dry facility. Shelf life can be affected by storage conditions such as temperature, humidity and overall surroundings of the storage area. A Safety Data Sheet is available and should be consulted prior to handling or use.

Availability

Starlose P-100 is available in 50 lb multi-wall poly-lined paper bags for truckload and LTL shipments. For additional information, samples or technical assistance in using Starlose P-100 please contact 1-800-328-5037 or info@chemstar.com



Typical Analysis

Starlose P-100	
Base Starch	Potato
Form	Powder
pH (6% Solids)	5.0 – 8.0
Moisture (%)	12 Max
Density (lb/ft ³)	30 – 50
Particle Size (% thru)	99 (-) 850 micron
Appearance	White
Typical Usage Rates	4 – 6 ppb (11.4 – 17.1 kg/m ³)
Ionic Character	Nonionic

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