

PRE GELATINIZED STARCH

FLUID LOSS ADDITIVE

INFL 3000 – PRODUCT DATA SHEET

Description

PGS is a high quality preserved Polysaccharide Derivative used to provide rheology stability and filtration control in all types of water based drilling fluid systems. It is a non ionic natural polymer and is highly effective in all waters, including high salinity and high hardness brines. The product helps in reducing fluid loss.

Application

PGS is recommended as a very cost effective fluid loss agent both in fresh water and saline water base mud systems. It is stable up to 100°C and is susceptible to bacterial degradation. Therefore, use of 2-3% biocide is recommended along with it.

Advantages

- Economical method of filtration control
- Can be used in the full range of water types - KCl, NaCl, MgCl₂ CaCl₂
- Provides well bore stability and filtration control
- Non damaging to the formations
- Contains preservative
- Performs over a wide pH range

Specifications

S.No.	Parameter	Specification
1	Physical State	Free flowing powder, free from visible impurities
2	Moisture content at 105±2°C, percent by mass	10.0 (Maximum)
3	pH of 2% (w/v) solution of material in distilled water	10.0 (Minimum)
4	pH of 2% (w/v) solution of material in distilled water after ageing at (24±2°C) for 120 hrs.	Drop in pH will not be more than 2.0 units
5	Apparent Viscosity of 2% (w/v) Solution in distilled water at 24±2°C, cP	20.0 (Maximum)
6	Qualitative test for presence of Starch	Positive
7	Apparent Viscosity of (NDDF) base mud (10% KCl + 0.4% XCP + 6% MCC in distilled water) at 24±2°C, cP	25.0 (Maximum)
8	API Filtration Loss of (NDDF) base mud (10% KCl + 0.4% XCP + 6% MCC in distilled water), ml	13.0 - 17.0
9	Apparent Viscosity of treated (3.0 % (w/v) sample) base mud at 24±2°C, cP	35.0 (Maximum)
10	API Filtration Loss of treated (3.0 % w/v, sample) base Mud, ml	45% (Maximum) of base mud value
11	Apparent Viscosity of treated (3.0 % w/v, sample) base mud after ageing at (24±2°C) for 120 hrs. at 24±2°C, cP	Maximum variation of ± 5 CP from treated base mud
12	API Filtration Loss of treated (3.0 % w/v, sample) base mud after ageing at (24±2°C) for 120 hrs., ml	50 % (Maximum) of treated base mud

Packaging

25 Kgs pre ply kraft paper bag. Customized packaging is available on request.

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