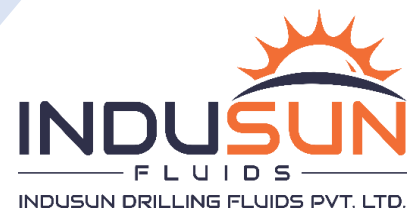


XANTHAN GUM (XC POLYMER)

VISCOSIFIER

INVS 3000 – PRODUCT DATA SHEET



Description

XC Polymer is a high molecular weight Xanthum Gum biopolymer and is used to increase the viscosity of water based drilling and completion fluids. It is a polysaccharide secreted by the bacteria genus Xanthomonas Campestris. Xanthan Gum is an anionic polymer with tolerance for salinity and fair tolerance for hardness ions. It is a finely powdered material that can vary in the amount of residual bacteria debris and the ease with which it disperses into water. It is stable up to 150°C. It is primarily a viscosity modifier for freshwater and salt Saturated Muds.

Application

XC Polymer is used in drilling and completion fluids to enhance their rheology, ensuring efficient hole cleaning. It provides optimum hole cleaning and suspension qualities.

Advantages

- Provides excellent suspension properties, restricting the settlement of weighting agents and drilled cuttings
- Stable over a wide pH range and is effective in saturated brines as well as fresh and sea water base drilling fluids
- Resistant to bacterial degradation and stable up to 150°C

Packaging

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

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 | 15 (Maximum) |
| 3 | Apparent Viscosity of suspension in NaCl at 24±2°C, cP | 15 – 25 |
| 4 | Gel0 of the suspension in NaCl at 24±2°C, lbs./100 sq. ft. | 5.0 (Maximum) |
| 5 | n' value (at 200 & 100 rpm) of the suspension at 24±2°C | 0.4 (Maximum) |
| 6 | Apparent Viscosity of cross linked suspension at 24±2°C, cP | 30 (Minimum) |
| 7 | Yield Point of cross linked suspension at 24±2°C, lbs./100 sq. ft. | 30 (Minimum) |
| 8 | Gel0 of cross linked suspension at 24±2°C, lbs./100 sq. ft. | 15 (Minimum) |
| 9 | Gel10 of cross linked suspension at 24±2°C, lbs./100 sq. ft. | 30 (Minimum) |
| 10 | Apparent Viscosity of hot rolled (100 °C, 18 hrs.) treated Bentonite suspension at 24±2°C, cP | Should not decrease after hot rolling |
| 11 | Yield Point of hot rolled (100 °C, 18 hrs.) treated Bentonite suspension at 24±2°C, lbs./100 sq. ft. | Should not decrease after hot rolling |
| 12 | API Fluid loss of hot rolled (100°C, 18 hrs.) treated Bentonite suspension, ml | Should not increase after hot rolling |
| 13 | Borate Sensitivity test | No stiff gel formation |

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