

Description

Clouding Glycol is a Polyalkene type, water miscible multifunctional additive for drilling fluids. Effective in medium to high salinity systems, It is used in water based drilling fluid to improve lubricity and shale stability and to extend the temperature stability. The chemical can be used in most water based mud systems, and non dispersed KCL/PHPA systems.

Application

Clouding Glycol is used in conjunction with an encapsulating polymer (PHPA) and brine phase KCL. It is ideal for use in high angle drilling, extended rich drilling, deep and sub salt applications.

Advantages

- Stabilizes hydratable and dispersible shale
- Environmentally safe
- Provides higher efficiency than conventional polymers and water based fluids
- Reduces torque and drag
- Effective for well bore stability and shale inhibition
- Improves lubricity
- Improves high temperature filtration control

Specifications – High Cloud Point

S.No.	Parameter	Specification
1	Physical state	Liquid at 24±2°C, free from visible impurities
2	pH of 3% (v/v) sample in 10% (w/v) KCl solution in distilled water	6.0 – 7.5
3	Surface Tension <i>of 3% (v/v) sample in 10% (w/v) KCl solution in distilled water, dynes / cm</i>	45± 5
4	Hydroxyl Value, <i>mg KOH / g of sample</i>	300- 360
5	Iodoform test for confirmation of presence of α-carbon in sample	Positive
6	Apparent Viscosity <i>of treated (3%, v/v, sample) hot rolled (100°C, 18 hrs.) base mud at 24±2°C, cP</i>	Not less than the value obtained for hot rolled base mud
7	Yield Point <i>of treated (3%, v/v, sample) hot rolled (100°C, 18 hrs.) base mud, lbs./100 sq. ft.</i>	Not less than the value obtained for hot rolled base mud
8	Lubricity Coefficient <i>of treated (3% v/v, sample) hot rolled (100°C, 18 hrs.) base mud</i>	Not more than 80% of the value obtained for hot rolled base mud
9	HP-HT Filtration Loss <i>(500 psi, 100°C) of treated (3% v/v, sample) hot rolled (100°C 18 hrs.) base mud, ml</i>	Not more than 70% of the value obtained for hot rolled base mud
10	Cloud Point of 3% (v/v) sample in 10% (w/v) KCl in distilled water, °C	75 -87

Specifications - Low Cloud Point

S.No.	Parameter	Specification
1	Physical state	Liquid at 24±2°C, free from visible impurities
2	pH of 3% (v/v) sample in 5% (w/v) KCl solution in distilled water	6.0 – 7.5
3	Surface Tension of 3% (v/v) sample in 5% (w/v) KCl solution in distilled water, dynes / cm	40 ± 5
4	Hydroxyl Value, mg KOH / g of sample	150 - 200
5	Iodoform test for confirmation of presence of α-carbon in sample	Positive
6	Apparent Viscosity of treated (3%, v/v, sample) hot rolled (100°C, 18 hrs.) base mud at 24±2°C, cP	Not less than the value obtained for hot rolled base mud
7	Yield Point of treated (3%, v/v, sample) hot rolled (100°C, 18 hrs.) base mud, lbs./100 sq. ft.	Not less than the value obtained for hot rolled base mud
8	Lubricity Coefficient of treated (3% v/v, sample) hot rolled (100°C, 18 hrs.) base mud	Not more than 80% of the value obtained for hot rolled base mud
9	HP-HT Filtration Loss (500 psi, 100°C) of treated (3% v/v, sample) hot rolled (100°C 18 hrs.) base mud, ml	Not more than 70% of the value obtained for hot rolled base mud
10	Cloud Point of 3% (v/v) sample in 5% (w/v) KCl in distilled water, °C	60 - 72

Packaging

55 Gal. drum/208 Litre barrels. Customized packaging is available on request.