

SULPHONATED ASPHALT

SHALE STABILISERS

INSH 3000 – PRODUCT DATA SHEET

Description

Sulphonated Asphalt is modified sodium sulphonated asphaltic compound. Its versatile mud conditioner contributes to the stability of drilling fluids, stabilizes shale, inhibits dispersion of drilled solids, reduces torque and drag, and acts as an alternative to oil usage.

Application

Used widely for shale control, fluid loss improvement, torque and drag reduction, and inhibition of swelling clays.

Packaging

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

Specifications

Advantages

- Compatible with all water based mud systems
- Improves lubricity, thereby reducing torque and drag of the drilling string
- Seals small fractures in stressed shale formulation
- Prevents bit and down hole assembly bailing by preferentially oil wetting the drill string
- Contributes to corrosion inhibition
- Inhibits swelling clay and water wetting of shales
- Reduces HTHP (High Temperature High Pressure) fluid loss
- Improves filter cake quality and helps seal micro fractures

S.No.	Parameter	Specification
1	Physical State	Flakes / powder, free from visible impurities.
2	Moisture content at 105±2°C, percent by mass	10 (Maximum)
3	Soluble matter in distilled water, percent by mass	65.0 (Minimum)
4	Soluble matter in Dimethyl Sulphoxide, percent by mass	30.0 (Minimum)
5	pH of 2% (w/v) solution of the sample in distilled water at 24±2°C	8.5 - 9.5
6	Qualitative test for presence of Sulphonate group	Positive
7	Lubricity Coefficient <i>of the treated (2% (w/v) sample) 15 cP Bentonite suspension</i>	0.30 (Maximum)
8	Apparent Viscosity <i>of treated (3% w/v, sample) base mud at 24±2°C, cP</i>	Not more than 35% of the value obtained for base mud
9	Yield Point <i>of treated (3% w/v, sample) base mud, lbs/ 100 sq. ft</i>	Not more than 15% of the value obtained for base mud
10	Apparent Viscosity <i>of treated (3% w/v, sample) and hot rolled (65°C, 18 hrs.) base mud at 24±2°C, cP</i>	Not less than 40% of hot rolled base mud
11	Yield Value <i>of treated (3% w/v, sample) and hot rolled (65°C, 18 hrs.) base mud, lbs./ 100 sq. ft</i>	Not less than 25% of hot rolled base mud
12	Barium Chloride test	No settling of black colored precipitate

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