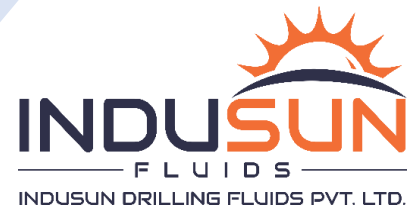


SPOTTING FLUIDS (WEIGHTED)

INSF 2000 – PRODUCT DATA SHEET



Description

Spotting Fluid is a blend of organic surfactants designed to free differentially stuck pipe by increasing the penetration rate of the fluid into the wall cake. In addition, the product adds lubricity to the bore hole pipe interface, thereby reducing the pull out force.

Application

For weighted mud systems, Weighted Spotting Fluids which can be loaded up to the desired fluid density are used.

Advantages

- Minimizes the safety hazards associated with the excessive pull out force required to free the stuck pipe
- Can be used with Diesel, Mineral or Crude oil
- Thermally stable
- Improves the lubricity

Specifications

| S.No. | Parameter | Specification |
|-------|--|---|
| 1 | Physical state | Homogeneous free flowing liquid at 24±2°C, free from visible Impurities |
| 2 | Lubricity Coefficient of Treated (1% w/v) 10 cP, Bentonite suspension | 0.25 (Maximum) |
| 3 | Interfacial Tension of treated HSD Water system, containing 2.5% (w/v) Spotting Fluid, dyne /cm | ≤ 50% of the value obtained for untreated system |
| 4 | Apparent Viscosity of the hot rolled (100°C, 4 hrs.) base mud at 49±3 °C, cP | Variation: Not more than ± 20% compared to the value of the base mud |
| 5 | Plastic Viscosity of the hot rolled (100°C for 4 hrs.) base mud at 49±3 °C, cP | |
| 6 | Yield Point of the hot rolled (100°C, 4 hrs.) base mud at 49±3 °C, lbs./100 sq. ft. | |
| 7 | Gel0 of the hot rolled (100°C, 4 hrs.) base mud at 49±3 °C, lbs./100 sq. ft. | |
| 8 | Gel10 of the hot rolled (100°C, 4 hrs.) base mud, at 49±3°C, lbs./100 sq. ft. | |
| 9 | Weight Stability test Difference in the specific gravities of top and bottom slug samples | 0.02 (Maximum) |
| 10 | Filter Cake Cracking test | Filter cake should develop extensive cracks |
| 11 | Torque required for release of the stuck plate, inch-pounds | 75 (Maximum) |

Packaging

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

Recommended Treatment

One drum of 208 litres is used in 50 Bbls of Crude / Diesel

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