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Specifications

Physical State	: The material as received shall be viscous liquid at ambient temperature, free from visible impurities.
Specific Gravity @ 24 + °C	: 1.20 - 1.30
Water Solubility	: Soluble in water in all proportions
Polymerised Polyol content (% by mass)	: 35.0 (min.)

Viscosity of sample

- A) Take 100 ml sample and add 50 ml distilled water to it while stirring in H.B.M. at high speed, continue stirring for 15 mins. & then measure its apparent viscosity at $24 \pm 2^\circ\text{C}$, it should be 25.0 cp (min).

Bentonite Inhibition Test

- B) Add 5% (w/v) polyglycerol sample to distilled water (i.e. in 100 ml distilled water add 5ml sample) & stir in H.B.M. at low speed for 10 mins. To this add 7.5 % (w/v) ongc approved bentonite powder (i.e. 7.5 gm per 100 ml of distilled water) & stir again in H.B.M. at high speed for 15 mins. Determine its apparent viscosity and plastic viscosity at $24 \pm 2^\circ\text{C}$.
Value of apparent and plastic viscosities should not be more than of the values obtained at 6(A)

Performance Test

Prepare 10 % (w/v) bentonite water mud suspension in distilled water using ongc approved bentonite by stirring with laboratory stirrer (3000-4000 rpm) for 30 mins. Age the suspension for 72 hrs. At $90 \pm 2^\circ\text{C}$. After lapse of aging, cool the suspension to $24 \pm 2^\circ\text{C}$. Dilute it with distilled water and adjust apparent viscosity to $15 \pm 1\text{cp}$. After stirring in H.B.M. at high speed for 15 mins. And measure plastic viscosity at $24 \pm 2^\circ\text{C}$ of this base mud. Add 5ml of Polyglycerol sample per 100 ml of base mud and homogeneous in hamilton beach mixture by stirring at high speed for 15 mins, and measure the parameters.

- 1) Plastic Viscosity of the treated mud should not be more than base mud
- 2) Lubricity co-efficient should not be more than 0.18

NON WARRANTY:

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