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## Product: Sulfonated Asphalt (Powder)

**Description:** Sulfonated Asphalt is a modified High performance sulphonated asphaltic compound used as a Shale Stabilizer for oilfield applications. Its versatile mud conditioner contributes to the stability of drilling fluids, stabilizes shale, inhibits dispersion of drilled solids, reduces torque, and drag, controls high temperature water loss and acts as an alternative to oil usage etc. and aids emulsification of oil.

**Application:** For shale control, fluid loss improving, Torque and Drag Reduction, Inhibition of Swelling clays of all water muds.

**COMMON NAME** – Shale Stabilizer and Fluid Loss Reducer

### Advantages:

- It 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.
- Reduces the down hole with temperature fluid loss and contributes to corrosion inhibition.
- Controls high temperature water loss.
- Inhibits swelling clay and water wetting of shale
- Reduces HTHP (High Temperature High Pressure) Fluid Loss
- Improves Filter cake Quality and helps seal micro fractures

### Specification:

#### Physical Properties:

Properties	Value
Appearance	Blackish Grey powder
Bulk Density	900-1000 Kg / m <sup>3</sup>
PH (1% Solution )	>8.5
Moisture Content (% by weight)	< 10
Solubility in water (%)	65-75 %
Solubility in Oil (%)	Min 20
Sulphonate Group	Positive
Thermal Stability	250°C
Particle Size	> 90% through BSS 40.
HPHT Fluid Loss ml/30 Min	25-30
API Filtration rate	9-11 ml
Lubricity Coefficient	0.3 Max