

Sulfonated Phenolic Resin SMP-2

The sulfonated phenolic resin is an anionic water-soluble polyelectrolyte, which is a temperature resistant and salt resistant fluid loss reducer for drilling fluid. It can be used together with sulfonated lignite, sulfonated tannin and sulfonated asphalt to configure the "three sulfonated mud system", which is one of the ideal high-temperature deep well mud systems. Sulfonated phenolic resin, as a mud treatment agent for deep wells, has excellent properties such as high temperature and high pressure fluid loss reduction, salt resistance, calcium resistance, and reduction of mud cake friction coefficient. It plays an important role in consolidating well walls, preventing collapse, and preventing sticking.

1. Features and Advantages:

- 1) Temperature resistance up to 200 °C
- 2) Strong adhesive protection ability, thin mud cake, low leakage rate
- 3) Low molecular weight, no increase in viscosity

2. Technical Parameters

Items	Specifications
Appearance	Pink or brownish red powder
Dry basis content, %	≥90
Water insoluble matter, %	≤10
Cloud point salinity (CL -), g/L	≥100
Apparent viscosity of drilling fluid, mPa · s	≤25
High temperature and high pressure filtration loss, ml	≤25

3. Applications

- 1) Effective high-temperature resistant fluid loss agent, the core fluid loss agent in high-temperature water-based systems
- 2) Suitable for fresh water, saturated brine, and organic salt systems
- 3) Ideal for drilling deep wells, ultra-deep wells, high-temperature wells, ultra-high-temperature wells, and salt gypsum layers

4. Packaging, Storage and Transportation

- 1) The packaging adopts a three-in-one woven bag, the inner layer is a plastic bag, and the inner and outer bag mouths should be sewn firmly.
- 2) The net mass of each bag (25±0.25) kg, severe collision should be prevented during transportation, and rainproof and moisture-proof measures should be done, and moisture-proof measures should be paid attention to;
- 3) Should be stored in a cool and dry place, fireproof, sun protection, product shelf life of two years, if the shelf life, should be re-inspected and qualified before use.