

Sulfonated Phenolic Resin (SMP)[®]

Product Description

SMP sulfonated phenolic resin is a cation exchange resin used in medium- and high-temperature wells and salt-pudding formations to effectively reduce fluid loss under high-temperature and high-pressure conditions. Its unique molecular structure and high degree of sulfonation give the product exceptional temperature resistance and strong hydrophilicity. As a core loss-reduction agent in medium- to high-temperature water-based systems, it is minimally affected by temperature and exhibits strong salt resistance—with a salt tolerance of up to 110,000 ppm, calcium ion contamination resistance of 1,800 ppm, and temperature resistance up to 160°C. It delivers optimal results when used in combination with other water-based products.

Applications/Features

- Excellent high-temperature resistance
- Strong resistance to contamination
- Good compatibility with a wide range of drilling fluid additives
- Helps form a dense filter cake
- Good resistance to salt and calcium

Technical Indicators

Item	Specifications
Appearance	Brownish-yellow powder
Temperature Resistance	≤160°C
Moisture Content	≤10%
pH (1% solution)	6.0–10.0
Water Solubility	Easily soluble in water
Recommended Dosage	8–14kg/m ³

