

## Fluid Loss Agent Sp-8 For Drilling Fluid

### Description:

SP-8 is a compound salt and calcium tolerant polymer fluid loss agent with medium-low molecular weight prepared by polymerization and chelation of metallic ion based on propenyl monomer as the main material. The product is capable of reducing the water loss of the drilling fluid and improve the quality of plaster; it is highly resistant to high temperature and tolerant to salt and calcium; the addition of SP-8 will exert no adverse effect on other properties of the drilling fluid; it is applicable for all types of drilling fluid system.

### Feature:

Either in fresh water-based drilling fluid or salt water-based drilling fluid, the product could significantly reduce the water loss of the drilling fluid and improve the plaster quality of the drilling fluid. SP-8 is not also applicable for polymer mud, but also all types of water-based drilling fluid system. The highest operation temperature of SP-8 in drilling fluid could be 150°C.

### Technical specifications:

Item	Specification
Apparent	White powder
Water content, %	≤10.0

Screen residue,( Φ 0.45mm mesh)%			≤20.0
Water soluble			Water soluble
PH(1% water)			≤10.0
Distilled Water	Base mud	Apparent viscosity mPa.s	6.0-8.0
		Plastic Viscosity, mPa.s	3.0-5.0
		API Filtrate volume ml	22-28
	Base mud+0.4% sample	Apparent viscosity mPa.s	≥10.0
		Plastic Viscosity, mPa.s	≥5.0
		API Filtrate volume ml	≤12.0
Salt Base Mud	Salt base mud	Apparent viscosity mPa.s	4.0-6.0
		Plastic Viscosity, mPa.s	2.0-4.0
		API Filtrate volume ml	52-58
	Base mud+2.0% sample, 150°C Hot rolling 16h	Apparent viscosity mPa.s	≥5.0
		Plastic Viscosity, mPa.s	≥2.0
		API Filtrate volume ml	≤12.0

### **Applicable system and recommended dosage:**

It is suggested to add 0.5~1.5% SP-8 into polymer drilling fluid and other fresh water-based drilling fluid; 1.5~2.5% into salt mud; however, the actual amount depends on the mud system and customer's requirements for water loss. SP-8 may be used in dry agent directly or prepared as water solution with 10~20% concentration, or may also be prepared into mix liquid with other agents before adding into the mud.