



## 产品介绍——钻井液用抗高温高压复合降滤失剂

### Anti—high temperature and Anti-high pressure Filtration reducer for Drilling Fluid Introduction

#### 产品名称 ( *Product name* )

钻井液用抗高温高压复合降滤失剂 FD-1

Anti-high temperature and Anti-high pressure Filtration reducer for Drilling Fluid FD-1

#### 性能及应用 ( *Application* )

抗高温高压复合降滤失剂 FD-1 是由树脂聚合物、多种表面活性剂、阳离子页岩抑制剂等经特殊加工而成的。FD-1 主要用于提高泥浆体系在高温、高压、高密度、饱和盐水等条件下的降滤失防塌性能，而磺化酚醛树脂、褐煤树脂等常规降滤失剂在这种情况下处理效果不佳。FD-1 对地层裂缝能有效封堵，有利于井壁的稳定，能有效降低泥饼摩阻系数，降粘效果好，钻井液性能稳定，使用方便，使用效果明显。

在泥浆中加量 3%，即可改善泥饼质量，产生良好的降滤失、封堵防塌功效。

该产品有较强的针对性和目的性，其应用范围及主要特点：

- 1、主要用于提高泥浆体系在高温、高压、高密度、饱和盐水等条件下的降滤失防塌性能，以弥补磺化酚醛树脂、褐煤树脂等常规降滤失剂的不足。
- 2、抗温能力强，抗高温达 200℃。
- 3、对地层裂缝能有效封堵，有利于井壁的稳定。
- 4、适合在深井、超深井中使用。

Anti-high temperature and Anti-high pressure Filtration reducer is a kind of chemosynthesis agent which is processed from resin polymer, multi-surfactant and cationic shale inhibitor. It is used mostly to enhance the reducing filtration and anti-caving capacity of drilling fluid in the condition of high-temperature, high-pressure high-density and saturated salt water, and the general filtration reducers are inefficient, such as sulfomethal phenolaldehy resin and lignite resin. The FD-1 can efficiently block formation crack, stabilize borehole wall and reduce friction coefficient of the mud cake and viscosity. The drilling fluid which including the FD-1 has steady performance, convenient operation and evident effectiveness.

The recommended concentration for drilling fluids is 3 percents. The drilling fluid will deserve better property, such as cake quality, filtration loss control, plugging property and so on. The product has strong relevance and purpose, its scope of application and main features as follows:

1. It is used mostly to enhance the reducing filtration and anti-caving capacity of drilling fluid in the condition of high-temperature, high-pressure high-density and saturated salt water, and it is used to Make up the shortfall of the general filtration reducers, such as sulfomethal phenolaldehy resin and lignite resin.
2. The FD-1 is conducive to a stable wall through blocking the formation cracks.
3. The FD-1 can efficiently plug formation crack, stabilize borehole wall.
4. The FD-1 is suitable for use in deep well and ultra-deep.



### 质量指标 ( Specifications )

项 目 <i>Properties</i>	技 术 指 标 <i>Values</i>
外 观 Appearance	黑褐色自由流动的粉末 Black brown free flowing powder
烘失量 Drying content %	≤5.0
筛余量 ( 0.154mm 标准筛 ) Screenings(Standard sieve) %	≤20.0
油溶率 Oil-soluble ratio %	≥35.0
表观粘度 Apparent viscosity mPa.s	≤35.0
高温高压滤失量 Filtrate Loss in High Temperature and Pressure mL	≤28.0

### 包装储运 ( Packaging )

本品采用三合一牛皮纸袋包装 ( 25Kg/袋 ), 并内衬防水塑料膜。防日晒雨淋, 贮存在阴凉处。

The product should be packed with triple kraft paper bags as the outside bag and the plastic film bag as the inside bag ( 25Kg per package ) . Prevent it from sunshine and rainwater and reserved in cool storeroom.

### 操作安全提示 ( Operation safety tips )

避免接触到眼睛, 使用时应戴好防护眼镜、手套。安全性信息详见材料安全数据表 ( MSDS )。

Wear protective glasses to avoid contact with eyes, gloves when using. Safety information refer to the material safety data sheet (MSDS).