东正化工
DONGZHENG CHEMICAL

水解聚丙烯腈铵盐
Hydrolyzed ammonium salt of polyacrylonitrile

产品信息 Product Information

【物理化学性质】可自由流动的淡黄色自由流动的粉末及颗粒
本产品是由聚丙烯腈在高温高压下降解而形成，其主要成份含有羧酸、羧安基、酰胺基和亚铵基等，其颗粒不易结块。该产品有较强降低钻井液降滤失量和高温高压滤失量，抗温能力强，抗热稳定性好等作用，具有一定的抑制粘土水化和防塌能力，同时具有较好的抗盐以及抗污染的能力。

产品特点

● 产品优势

1、抑制性强，防塌效果良好；
2、无毒无污染，满足环保要求；
3、可有效降低滤失量，改善泥饼质量；
4、配伍性好，使用方便。

● 包装

25KG/袋，使用三合一复合牛皮纸袋包装。（可根据客户需求定制）

● 存储

储运时应存放于干燥、阴凉、通风的库房，远离火种和热源，避免阳光直射,散包受潮不影响使用。

● 用法及用量

推荐加量0.5%～1.5%

技术指标 Technical Index

水解聚丙烯腈铵盐技术要求

理化性能		
项目		指标
外观		自由流动的粉末及颗粒
筛余量，%	≤	5.0
烘失量，%	≤	10.0
铵含量，%		7.0~9.0
灼烧残渣，%	≤	2.0

钻井液性能

项目		技术指标	
		淡水钻井液	淡水钻井液
基浆	滤失量，mL	25.0±2.0	55±3.0
	表观黏度mPa's	6.8~8.0	5.0~7.0
经NH4-HPAN处理后	滤失量，mL ≤	14.0	27.0
	表观黏度mPa's ≤	8.0	

具体作用 Specific function

产品在钻井液中的具体作用
1.增稠作用
磺甲基酚醛树脂能够使钻井液的黏度和稠度增加，从而减少泥浆分离现象的产生，保持钻井液的稳定性。
2.提高耐高温性能
磺甲基酚醛树脂具有较好的高温抗性能，可以在高温条件下维持钻井液的性能，使钻井液不受高温环境的影响。
3.抑制污染物沉积
磺甲基酚醛树脂还能够抑制钻井液中污染物的沉积，保持钻井液的清洁度和稳定性。

Product Features

产品信息 Product Information

【Physical and Chemical Properties】 Free flowing light yellow powder and particlesThis product is formed by the degradation of polyacrylonitrile under high temperature and high pressure, and its main components includeThere are carboxylic acids, carboxylic acid groups, amide groups, and ammonium groups, and their particles are not easily clumped.This productThe product has strong ability to reduce drilling fluid filtration loss and high temperature and high pressure filtration loss, and has strong temperature resistance,It has good heat resistance and stability, and has a certain ability to inhibit clay hydration and prevent collapse,Simultaneously possessing good salt resistance and pollution resistance.

● Product advantages

1. Strong inhibition and good anti collapse effect;
2. Non toxic and pollution-free, meeting environmental protection requirements;
3. Can effectively reduce filtration loss and improve the quality of mud cake;
4. Good compatibility and easy to use.

● Package

25kg/bag, packaged in a three in one composite kraft paper bag. (Can be customized according to customer needs)

● Storage

During storage and transportation, it should be stored in a dry, cool, and well ventilated warehouse, away from sources of fire and heat, and avoid direct sunlight. Loose packages should not be affected by moisture and should not be used.

● Usage and dosage

Recommended dosage: 0.5% to 1.5%

Technical Index

Technical requirements for hydrolysis of ammonium salt of polyacrylonitrile

Property	
project	index
appearance	Free flowing powders and particles
Sieve residue,% ≤	5.0
Drying loss,% ≤	10.0
Ammonium content,%	7.0~9.0
Burning residue,% ≤	2.0

Drilling fluid performance

project		Technical Indicators	
		fresh water drilling fluid	fresh water drilling fluid
Base slurry	Filtration loss, mL	25.0±2.0	55±3.0
	Apparent viscosity mPa · s	6.8~8.0	5.0~7.0
After NH4-HPAN treatment	Filtration loss, mL ≤	14.0	27.0
	Apparent viscosity mPa · s ≤	8.0	

Specific function

The specific function of the product in drilling fluid
1. Thickening effect
Sulfonated methyl phenolic resin can increase the viscosity and consistency of drilling fluid, thereby reducing the occurrence of mud separation and maintaining the stability of drilling fluid.
2. Improve high temperature resistance performance
Sulfonated methyl phenolic resin has good high-temperature resistance and can maintain the performance of drilling fluid under high temperature conditions, making the drilling fluid not affected by high temperature environment.
3. Inhibit the deposition of pollutants
Sulfonated methyl phenolic resin can also inhibit the deposition of pollutants in drilling fluid, maintaining the cleanliness and stability of the drilling fluid.

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