

黏土稳定剂 Clay Stabilizer

产品概述

本品外观一般呈无色至黄色透明液体。属于季胺类产品，能够有效地吸附在黏土表面，防止水敏性矿物水化膨胀及分散运移而对油气层造成的伤害，具有使用范围广、长久有效、用法简单、用量少、抗酸液、盐液、碱液和油水的冲刷等特点，适用于活性水、射孔液、压裂液、钻井液及酸化液等入井工作液体。



性能特点

- 1、可有效抑制黏土膨胀和运移；
- 2、能够调节泥浆粘度，改善水流特性；
- 3、性能稳定、适用浓度低；
- 4、配伍性好，可有效防止储层污染；
- 5、具有高效防膨效果，多种类型可以选择；

技术指标

项目	指标		
	注水用	压裂酸化用	高温稳定用
溶解性	与水互溶		
配伍性	/	无分层	/
膨胀体积, mL	≤3.0, 加量 2%	≤3.0, 加量 2%	≤2.0, 加量 4%
耐水洗能力, mL	≤0.4		
有机氯含量	0%		

产品用途

黏土稳定剂能有效吸附在黏土表面，防止水敏性矿物水化膨胀及分散运移，保护油气层不受伤害，在压裂液或酸液中加入粘土稳定剂能防止施工过程中入井液体引起储层中粘土膨胀、分散、运移造成对储层的污染，有助于提高油井的生产效率和采收率。

包装与贮存

1. 本产品一般使用槽车、吨桶、桶包装，吨桶净重 1000KG、桶装 200kg/桶、25kg/桶；可根据客户要求提供定制包装，运输过程中应轻装轻放，切勿倒置。
2. 本产品在贮存时必须旋紧桶盖，置于阴凉通风处，搬运及使用时应避免接触皮肤，溅入眼中，一旦接触应立即用大量清水冲洗。



Product Overview

This product typically appears as a colorless to yellow transparent liquid. It is a quaternary ammonium compound that can effectively adsorb onto clay surfaces, preventing water-sensitive minerals from hydrating, swelling, dispersing, and migrating, thereby avoiding damage to oil and gas reservoirs. It features a wide application range, long-lasting effectiveness, simple usage, low dosage, and resistance to acid, brine, alkali, and oil-water flushing. It is suitable for wellbore fluids such as active water, perforating fluids, fracturing fluids, drilling fluids, and acidizing fluids.

Characteristics

- 1.Effectively inhibits clay swelling and migration.
- 2.Regulates mud viscosity and improves water flow characteristics.
- 3.Stable performance with low effective concentration.
- 4.Good compatibility, effectively prevents reservoir contamination.
- 5.Provides highly efficient anti-swelling performance with multiple types available.water .

Technical Specification

Item	Index		
	For Water Injection	For Fracturing	High-Temperature Clay Stabilizer
Solubility	Miscible with water		
Compatibility	/	No layering	/
Swelling Volume, mL	≤3.0, dosage2%	≤3.0, dosage2%	≤2.0, dosage4%
Resistance to Washing, mL	≤0.4		
Organic Chlorine Content	0%		

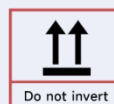
Applications

Clay stabilizers can effectively adsorb onto the surface of clay, preventing the hydration, swelling, dispersion, and migration of water-sensitive minerals, thereby protecting the oil and gas reservoir from damage.

Adding a clay stabilizer to fracturing fluid or acidizing fluid can prevent the wellbore fluids used during operations from causing clay swelling, dispersion, and migration within the reservoir, which could otherwise lead to reservoir contamination. This helps improve oil well production efficiency and recovery rates.

Package and Storage

- 1.This product is generally packaged in tank trucks, IBC totes, or drums. IBC totes have a net weight of 1000 kg, drums 200 kg each, and small drums 25 kg each. Customized packaging can be provided according to customer requirements. During transportation, handle with care and avoid inversion.
- 2.During storage, keep the container tightly closed and place it in a cool, well-ventilated area. Avoid contact with skin during handling and use. In case of eye contact, rinse immediately with plenty of water.



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