

# 稠化剂 Thickening Agent



## 产品概述

本产品为油田压裂用稠化剂，具有优异的增稠性能和流变调控能力，适用于油田、化工、涂料等领域。其耐高温、抗盐性强，能显著提升体系粘度和稳定性，使用方便，环保无毒。

## 性能特点

压裂用增稠剂在油气开采中具有增加压裂液粘度和提高携砂能力的作用。通过增加压裂液的粘度，使得支撑剂能够更好地悬浮在流体中，并被均匀地携带到裂缝的各个部分减少压裂过程中的流体损失，进一步降低成本并提高效益。

## 技术指标

项目	指标			
	固体	乳液		
		化学交联型		自交联型
		悬浮	反相	联型
外观	自由流动的颗粒	均匀、无分层、无沉淀		
固含量	≥88	≥40	≥30	
筛余量 (40 目) /%	5	/		
本体黏度 / (mPa · s)	/	≤500		
溶解时间/s	≤300	≤40		
表观黏度 / (mPa · s)	≥45	≥45	≥80	
降阻率 (0.1%) /%	≥70			

## 产品用途

压裂用稠化剂又称增稠剂，有多种分类，加入压裂液中可使其稠度提升，是一种用于油气井增产作业的重要化学添加剂，主要作用是增加压裂液的粘度和稠度，提高压裂效果，通常由聚合物、交联剂、稳定剂等多种化学物质组成，通过化学反应形成网状结构，使液体变得粘稠。

## 包装与贮存

- 采用 200kg 铁桶或塑料桶包装，也可根据用户要求使用其它包装。
- 贮于阴凉避风处，密闭保存。
- 保质期：1 年。



## Product Overview

This product is a thickening agent for oilfield fracturing, featuring excellent thickening performance and rheology control. It is suitable for use in oilfield, chemical, and coating applications. With high temperature resistance and strong salt tolerance, it significantly enhances system viscosity and stability. It is easy to use, environmentally friendly, and non-toxic.

## Characteristics

Fracturing thickeners play a key role in oil and gas extraction by increasing the viscosity of fracturing fluids and enhancing proppant-carrying capacity. By increasing fluid viscosity, proppants can remain better suspended and be evenly transported throughout the fractures. This reduces fluid loss during the fracturing process, thereby lowering operational costs and improving overall efficiency.

## Technical Specification

Item	Index			
	Solid	Emulsion		
		Chemical Crosslinked	Suspension	self-Crosslink
Appearance	granules	均匀、无分层、无沉淀		
Solid Content (%)	≥88	≥40	≥30	
Sieve Residue	5	/		
Bulk Viscosity	/	≤500		
Dissolution Time(s)	≤300	≤40		
Apparent Viscosity	≥45	≥45	≥80	
Drag Reduction rate	≥70			

## Applications

Fracturing thickening agents, also known as thickeners, come in various types and are added to fracturing fluids to increase their viscosity. They are important chemical additives used in oil and gas well stimulation operations to enhance production. Their primary function is to increase the viscosity and consistency of fracturing fluids, thereby improving the effectiveness of the fracturing process. Typically composed of polymers, crosslinkers, stabilizers, and other chemicals, these agents form a network structure through chemical reactions, making the fluid more viscous.

## Package and Storage

- Package: in 200kg iron or plastic drum , or customized by client.
- Storage: in a cool and ventilated place , keep airtight.
- Shelf - life : one (1) year .



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