

## 采油用清蜡剂

Oil recovery wax remover

### 产品概述

【外观】本品外观一般呈无色或黄色可自由流动的均匀液体。

【物理化学性质】原油降粘剂是一种用于降低稠油（高黏度原油）黏度的化学物质，通过降低稠油的流动阻力，改善其流动性，从而提高稠油的开采和运输效率。原油降粘剂广泛应用于石油开采、运输和加工过程中，尤其在稠油储量丰富的油田，其作用至关重要。



### 性能特点

- 1、可改善蜡晶和胶质沥青质的聚结，从而改善原油流动性；
- 2、可降低油水界面张力，有效提高采收率；
- 3、适用范围广、操作简便；
- 4、产品经济环保。

【用法及用量】本产品的注入方式一般有静态和动态注入两种，添加量应根据油井的温度、粘度和含水量等因素的实际情况进行调整，推荐使用量为每 1000m³ 水需要添加 20-40 降粘剂。在原油中使用，有效浓度应维持在 50-100ppm。

### 技术指标

原油降粘剂技术要求

项目			指标		
			水溶性		油溶性
			液体	固体	
外观			均匀液体，无杂质	自由流动粉末及颗粒，无结块	均匀液体，无杂质
溶解性			溶于水		溶于煤油
PH 值			6~9		/
闭口闪点/℃			/		≥30
凝点/℃			≤-10		/
有机氯含量			0.0%		0.0%
降粘率	原油初始 粘度 mpa.s	2000~500	≥95.0%		85%
		5000~10000	≥98.0%		
		10000~50000	≥99.0%		
乳液稳定性			油滴均匀分散在水中，未见透明水层		/
自然沉降脱水率			≥80%		/
1. 对于一般地区，要求油溶性降粘剂闭口闪点应不低于 30℃，对于有特殊要求的，由供需双方协调。 2. 对于一般地区，要求凝点不高于-10℃，对于特殊地区，凝点应不高于当地最低					

### 产品用途

【用途】主要用于预防和清除井筒、地层及输油管道内的蜡质、胶质和沥青质堵塞，从而延缓结蜡时间、改善原油流动性、延长清蜡检泵周期，起到提高油井采油率、增加经济效益的作用。

油溶性清蜡剂广泛适用于油基泥浆油田开发中的泡沫调剖、压裂、驱油、钻井和排水采气等体系。水基清蜡剂主要用于油田油井清除油管内的蜡质结垢，疏通油管提高产油量。

### 包装与贮存

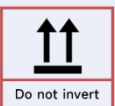
【包装】本产品一般用铁桶或塑料桶包装，可分净重 1000kg 吨桶和净重 200kg 、25kg

的不同规格桶，也可根据客户要求定制包装，运输过程中应轻装轻卸、避免碰撞、切勿倒置。

【存储条件】本产品应储存于干燥、阴凉、通风的库房，远离火种和热源，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。

【保质期】1 年。



### Product Overview

[appearance] the appearance of this product is generally colorless or yellow, which can flow

freely and evenly.

. Crude oil viscosity reducer is widely used in the process of oil exploitation, transportation and

processing, especially in the oil field with rich heavy oil reserves, and its role is very important.

### Characteristics

1. It can improve the coalescence of wax crystals and gum asphaltene, thereby improving the fluidity of crude oil;
2. It can reduce oil-water interfacial tension and effectively improve oil recovery;
3. Wide application scope and simple operation;
4. The product is economical and environmental friendly.

[usage and dosage] the injection method of this product generally includes static injection and dynamic injection. The addition amount should be adjusted according to the actual situation of the temperature, viscosity, water content and other factors of the oil well. The recommended amount is 20-40 viscosity reducer per 1000m<sup>3</sup> of water. When used in crude oil, the effective concentration should be maintained at 50-100ppm.

### Technical Specification

Technical requirements for crude oil viscosity reducers

project			index		
			water-soluble		Oil solubility
			liquid	solid	
appearance			Uniform liquid, free of impurities	Free flowing powder and particles, without clumping	Uniform liquid, free of impurities
Solubility			dissolve in water		Dissolved in kerosene
ph value			6~9		/
Closed flash point/°C			/		≥30
Condensation point/°C			≤-10		/
Organic chlorine content			0.0%		0.0%
viscosity reduction rate	Initial viscosity of crude oil mpa.s	2000~500	≥95.0%		85%
		5000~10000	≥98.0%		
		10000~50000	≥99.0%		
Lotion stability			The oil droplets are evenly dispersed in water, and no transparent water layer is observed		/
Natural sedimentation dehydration rate			≥80%		/
1 For general areas, it is required that the closed flash point of oil soluble viscosity reducers should not be lower than 30 °C. For those with special requirements, the supply and demand sides should coordinate.					
2 For general areas, it is required that the pour point should not exceed -10 °C. For special areas, the pour point should not exceed the local minimum					

### Applications

[purpose] it is mainly used to prevent and remove wax, gum and asphaltene blockage in wellbore,

formation and oil pipeline, so as to delay wax deposition time, improve crude oil fluidity, extend the

cycle of wax removal and pump inspection, and improve oil production rate and economic benefits.

. The water-based paraffin remover is mainly used to remove wax scale in the tubing of oil wells in

the oilfield, dredge the tubing and improve oil production.

### Package and Storage

This product is generally packaged in iron or plastic drums, and can be divided into different specifications of drums with a net weight of 1000kg, 200kg, and 25kg. Packaging can also be customized according to customer requirements. During transportation, it should be loaded and unloaded gently, avoid collisions, and do not invert.

[Storage Conditions] This product should be stored in a dry, cool, and ventilated warehouse, away from fire and heat sources. When handling and using, avoid contact with skin or splashing into eyes. Once in contact, rinse immediately with plenty of water.

Shelf life: 1 year.



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