

## 原油破乳剂

Crude oil demulsifier

## 产品概述

【外观】本品外观一般呈淡黄色、黄色或乳白色可自由流动的均匀液体。

【物理化学性质】原油破乳剂通常呈现为淡黄色至褐色的液体，密度在0.9~1.1g/ml之间，运动粘度(在20℃条件下)通常不超过100mm<sup>2</sup>/s<sup>2</sup>。产品具有较强的表面活性，主要功能是破乳，即破坏原油与水的乳化状态，使其分离，产品能够通过迅速分散到油水界面，降低界面张力，使水滴破裂、聚集长大，沉降到罐底而与油分开，从而提高采油率，增加经济效益。



## 性能特点

- 1、可有效促进油水分离;
- 2、可以提高原油流动性;
- 3、能够降低生产成本;
- 4、可以增加存储容积;
- 5、作用快速且稳定;
- 6、产品适应性强、使用操作简便。

【用法及用量】本产品在使用时可以通过稀释后投加，也可以配合设备使用，本产品推荐添加量通常为50~100ppm，具体用量取决于工艺系统、原油种类和其他工艺参数。

## 技术指标

## 原油破乳剂技术要求

项目		质量指标
外观		均匀液体、无杂质
闭口闪点, °C		≥20
脱水率, %	轻质原油	≥90
	中质原油	≥90
	重质原油	≥80
	含聚原油	≥80
水相清洁度	自然原油乳状液	不低于1级
	人工原油乳状液	不低于2级
注: 聚合物驱采出原油“脱水率”均执行“含聚原油”指标。		

## 产品用途

【用途】利用化学作用将乳化状的油水混合液中油和水分离开来，使之达到原油脱水的目的，以保证原油外输含水量降低；产品用于分离原油中的乳状液，将其分解为水和油两相，通过改变乳状液的表面性质，消除乳化剂、降低界面张力、改变乳状液的流变性质等方式，破坏乳状液的稳定性，从而实现油水分离。

## 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。

【保质期】1年。



## Product Overview

【Appearance】This product generally appears as a light yellow, yellow, or milky white liquid that can flow freely.

【Physical and Chemical Properties】Crude oil demulsifiers typically appear as light yellow to brown liquids with a density between 0.9 and 1.1 g/ml, and a kinematic viscosity (at 20 °C) typically not exceeding 100mm<sup>2</sup>/s<sup>2</sup>. The product has strong surface activity and its main function is to break the emulsion state of crude oil and water, separating them. The product can quickly disperse to the oil-water interface, reduce interfacial tension, cause water droplets to break, aggregate and grow, settle to the bottom of the tank and separate from the oil, thereby improving oil recovery rate and increasing economic benefits.

## Characteristics

1. It can effectively promote oil-water separation;
2. It can improve the fluidity of crude oil;
3. Can reduce production costs
4. Storage capacity can be increased;
5. Fast and stable action;
6. The product has strong adaptability and simple operation.

【usage and dosage】this product can be added after dilution or used with equipment. The recommended dosage of this product is usually 50~100ppm, depending on the process system, crude oil type and other process parameters.

## Technical Specification

## Technical requirements for crude oil demulsifier

project	quality index
appearance	Uniform liquid, free of impurities
Closed flash point, °C	≥20
Dehydration rate, %	Light crude oil
	medium crude oil
	Heavy crude oil
	Containing poly crude oil
Water phase cleanliness	Natural crude oil emulsion
	Artificial crude oil emulsion
	Not lower than level 1
	Not lower than level 2

Note: The "dehydration rate" of crude oil produced by polymer flooding follows the "polymer containing crude oil" index.

## Applications

【Purpose】Using chemical reactions to separate oil and water in emulsified oil-water mixtures, achieving the purpose of crude oil dehydration and ensuring a reduction in water content during crude oil export; The product is used to separate emulsions from crude oil, breaking them down into water and oil phases. By changing the surface properties of the emulsion, eliminating emulsifiers, reducing interfacial tension, and altering the rheological properties of the emulsion, the stability of the emulsion is disrupted, thereby achieving oil-water separation.

## Package and Storage

【Packaging】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 sources of fire and heat.

Shelf life: 1 year.



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