

## 杀菌剂 Bactericide

### 产品概述

本品外观一般为透明、淡黄色，黄色、至棕红色自由流动的均匀液体。

压裂用杀菌剂具有低毒、易降解等特点，同时具有双效杀菌性能，能够有效解决硫酸盐还原菌的抗药性问题，并且对油田注水和采油生产系统细菌滋生有显著的抑制效果，尤其适用于含聚合物采油污水处理和回注系。



### 性能特点

- 1、杀菌消毒、提高水质；
- 2、可有效减少胶粘度，提高采油效率；
- 3、可有效防止管道腐蚀；
- 4、易溶于水、无色、无味、无毒，对环境没有污染；

### 技术指标

项目	指标			
	油田水处理用	压裂用		
外观	均匀液体			
水溶性	与水互溶， 呈均匀液体	/		
腐蚀性	无腐蚀性	/		
pH 值	/	6~9		
压裂液粘度保持率 /%	/	≥80		
交联性能	/	能用玻璃棒挑挂		
凝点/℃	≤-10	/		
室内杀菌 效果 a	空白水样细菌 含量/（个/mL）	10 <sup>2</sup> ~10 <sup>3</sup>	10 <sup>4</sup> ~10 <sup>5</sup>	10 <sup>6</sup> ~10 <sup>7</sup>
	硫酸盐还原菌 （SRB）抑制浓 度/（mg/L）	≤50	≤80	≤120
	腐生菌（TGB） 抑制浓度/ （mg/L）	≤50	≤80	≤120
	铁细菌（FB）抑 制浓度/（mg/L）	≤50	≤80	≤120
有机氯含量 b /%		0		0.0
a 压裂用杀菌剂室内杀菌效果仅做腐生菌（TGB）抑制浓度。 b 压裂用杀菌剂仅限油井应用时做“有机氯含量”检测，气井应用时不做该项检测。				

### 产品用途

压裂用杀菌剂的主要用途包括控制微生物生长、防止金属腐蚀、减少管道堵塞、抑制污泥产生以及提高油田产量和质量。杀菌剂通过抑制或杀死硫酸盐还原菌（SRB）、铁细菌（FB）和腐生菌（TGB）等微生物，减少设备腐蚀、污泥产生和管道堵塞，从而保护油田设备，提高采油效率。

### 包装与贮存

1. 本产品用吨桶、桶包装，吨桶净重 1000kg、桶装 200kg 、25kg，也可根据客户要求定制包装。
2. 本产品在贮存时应保存在避光、清洁、阴凉、干燥处，室温下密闭保存。
3. 保质期：2 年。

### Product Overview

The appearance of this product is generally a transparent, light yellow, yellow, to brownish red, free-flowing, uniform liquid.

The bactericides used for fracturing are characterized by low toxicity and easy degradation, and they exhibit dual bactericidal performance. They can effectively address the issue of drug resistance in sulfate-reducing bacteria and have a significant inhibitory effect on bacterial growth in oilfield water injection and oil production systems. They are particularly suitable for the treatment and reinjection of polymer-containing oil production wastewater.

### Characteristics

1. Sterilization and disinfection, improving water quality;
2. It can effectively reduce the viscosity of the glue and improve oil extraction efficiency;
3. It can effectively prevent pipeline corrosion;
4. It is easily soluble in water, colorless, odorless, non-toxic, and poses no pollution to the environment;

### Technical Specification

Item	Index			
	For oilfield water treatment	Used for hydraulic fracturing		
Appearance	uniform liquid			
water-soluble	miscible with water, present as a uniform liquid			/
corrosive	non-corrosiveness	/		
ph value	/	6~9		
Fracturing fluid viscosity retention rate/%	/	≥80		
Crosslinking performance	/	Can be hung using a glass rod		
freezing point/℃	≤-10	/		
Indoor sterilization effect	Bacterial content of blank water sample/ (individual/mL)	10 <sup>2</sup> ~10 <sup>3</sup>	10 <sup>4</sup> ~10 <sup>5</sup>	10 <sup>6</sup> ~10 <sup>7</sup>
	Sulfate-reducing bacteria (SRB) inhibitory concentration/ (mg/L)	≤50	≤80	≤120
	Inhibitory concentration of TGB / (mg/L)	≤50	≤80	≤120
	Iron bacteria (FB) inhibitory concentration/ (mg/L)	≤50	≤80	≤120
Organic chlorine content b /%		0		0.0
The laboratory bactericidal efficacy of the fracturing bactericide is only tested for its inhibitory concentration against saprophytic bacteria (TGB).				
The bactericide used for fracturing is only required to undergo "organic chlorine content" testing when applied in oil wells, and is not required to undergo this testing when applied in gas wells.				

### Applications

The main applications of bactericides for fracturing include controlling microbial growth, preventing metal corrosion, reducing pipeline blockage, inhibiting sludge production, and enhancing oilfield production and quality. Bactericides protect oilfield equipment and improve oil extraction efficiency by inhibiting or killing microorganisms such as sulfate-reducing bacteria (SRB), iron bacteria (FB), and thiogenic bacteria (TGB), thereby reducing equipment corrosion, sludge production, and pipeline blockage.

### Package and Storage

1. This product is packaged in ton barrels and drums, with a net weight of 1000kg for ton barrels, 200kg for drums, and 25kg for 25kg drums. Customized packaging is also available upon customer request.
2. This product should be stored in a dark, clean, cool, and dry place, and kept sealed at room temperature.
- 3.Shelf life: two (2) years.



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