

## 油井水泥防气窜剂 Gas Migration Control Agent for Oil Well Cement

## 产品概述

油井水泥防气窜剂固体的本品外观为白色或灰白色无板结纤维粉体，液体的本品外观为均匀无霉变的乳液。本品无毒、无嗅，主要原料为丁苯胶乳，以丁二烯、苯乙烯为主要单体，通过乳液聚合的方法制备得到，具有良好的化学稳定性和机械稳定性，加入后对水泥浆稠化时间、流变性、游离水等无不良影响，抗压强度明显提高，在水泥浆的候凝过程中具有良好的防气窜性能。



## 性能特点

- 具有较好的防气窜作用；
- 可有效提高固井质量；
- 能够降低失水，适用多重环境；
- 适用范围广，具有良好的稳定性。

## 技术指标

项目	指标	
外观	固体	液体
	无板结固体	均匀无霉变乳液
初始稠度, Bc/80°C. 46.5MPa. 45min	$\leq 30$	
稠化线形突变值, Bc	$\leq 10$	
过渡时间, min	$\leq 40$	
失水量, ml/80°C. 6.9MPa. 30min	$\geq 100$	
抗压强度 MPa/102°C. 21MPa. 24h	$\geq 14$	

## 产品用途

油井水泥防气窜剂的主要用途是防止气体运移，提高固井质量，从而避免气窜现象的发生，避免固井失败和井筒稳定性下降，确保油气井的安全和高效运行，可以显著降低施工难度，提高作业的成功率。

- 可降低游离水，填塞孔隙，增加致密性利于防腐蚀。
- 提高粘结力，使水泥石早期强度发展快。
- 具有较好的抗盐性，同时具有辅助的降失水功能，可以减少降失水剂的使用量。

## 包装与贮存

1. 25kg/袋，外编内塑双层袋装或三合一复合牛皮纸袋包装；液体采用塑料桶装，50kg/桶，也可按客户要求包装。

2. 本产品运输过程中应注意包装破损，应贮存于阴凉干燥处，固体贮存期为二年，液体贮存期为一年。



## Product Overview

The solid form of this product appears as a white or grayish-white non-caking fibrous powder, while the liquid form is a uniform, mildew-free emulsion. The product is non-toxic and odorless. Its main raw material is styrene-butadiene latex, synthesized via emulsion polymerization using butadiene and styrene as the primary monomers. It exhibits excellent chemical and mechanical stability. After addition, it has no adverse effects on the thickening time, rheology, or free water of the cement slurry. It significantly enhances compressive strength and provides excellent gas migration control during the static gelation phase of cement slurry.

## Characteristics

- Provides excellent gas migration control.
- Effectively improves cementing quality.
- Reduces fluid loss and is suitable for various environments.
- Offers a wide range of applicability with good stability.

## Technical Specification

Item	Specification	
	Solid	Non-caking solid
Appearance	Liquid	Uniform, non-stratified emulsion
Initial Gel Strength, Bc / 80°C, 46.5 MPa, 45 min		$\leq 30$
Gel Strength Development Jump, Bc		$\leq 10$
Transition Time, min		$\leq 40$
Fluid Loss, ml / 80°C, 6.9 MPa, 30 min		$\geq 100$
Compressive Strength, MPa / 102°C, 21 MPa, 24 h		$\geq 14$

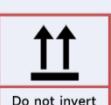
## Applications

The main function of accelerators used in oil well cement is to accelerate the hydration reaction of cement, shorten the thickening time of cement slurry, and thus accelerate the setting and hardening process of cement. Accelerators can significantly shorten the waiting time of cement slurry and improve the early strength of cement paste, which is very important for oil well cementing operations.

- Accelerating cement hydration reaction: coagulants can promote the hydration process of cement, making it set and harden faster.
- Shortening the waiting time: In oil well cementing operations, the use of accelerators can greatly shorten the waiting time of cement slurry, usually completing the cementing operation within 6 to 8 hours, thereby accelerating the overall construction progress.
- Improving early strength: coagulants can enhance the early strength of cement paste, ensuring sufficient strength is achieved in a short period of time after cementing, and ensuring the stability of the wellbore.

## Package and Storage

- 25kg/bag, packaged in a three in one composite kraft paper moisture-proof bag.
- When storing this product, attention should be paid to moisture, fire, and high temperature prevention. Avoid contact with acidic substances and store in a ventilated and dry place.



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