

油井水泥促凝剂 Oil Well Cement Accelerator

产品概述

油井水泥促凝剂是一种用于加快水泥浆凝结速度、提升早期强度的专用外加剂，适用于浅井、低温井及需要快速封固的固井作业。该产品能够显著缩短水泥浆的初凝和终凝时间，缩短等待固化时间，快速形成封固结构，提高早期承压能力。具有反应迅速、添加便捷、性能稳定等特点，对水泥石强度无不良影响，与各种油井水泥和外加剂体系兼容性良好，是提升施工效率与作业安全的理想助剂。



性能特点

油井水泥促凝剂可显著缩短水泥浆凝结时间，提升早期强度，加快封固效率，适用于低温浅井及抢修固井作业。产品分散性好，使用方便，对水泥浆流动性无不良影响，兼容性强，适应各种油井水泥体系。具备良好的热稳定性与环保性，不腐蚀设备，施工安全可靠。

技术指标

项 目		指标
理化指标	外观	流动性粉末或颗粒
	水分, %	≤8.0
	细度 (0.315mm 筛余), %	≤15.0
水泥浆性能	游离液量, ml	≤3.5
	初始稠度, Bc	≤30
	稠化时间 min/55℃. 27Mpa. 20min	≤100
	抗压强度, Mpa/60℃8h	≥11

产品用途

油井水泥用促凝剂的主要作用是加速水泥水化反应，缩短水泥浆稠化时间，从而加快水泥的凝结和硬化过程。促凝剂能够显著缩短水泥浆的候凝时间，提高水泥石的早期强度，这对于油井固井作业非常重要。

- 加速水泥水化反应：促凝剂能够促进水泥的水化过程，使水泥更快地凝结和硬化。
- 缩短候凝时间：在油井固井作业中，使用促凝剂可以大大缩短水泥浆的候凝时间，通常可以在 6 到 8 小时内完成固井作业，从而加快整体施工进度。
- 提高早期强度：促凝剂能够提高水泥石的早期强度，确保在固井后短时间内达到足够的强度，保障井筒的稳定性。

包装与贮存

- 25kg/袋，采用三合一复合牛皮纸防潮袋包装。
- 贮本产品储存保管时应注意防潮、防火、防高温，忌与酸性物质接触要求存放在通风、干燥处。

Product Overview

Oil well cement coagulant is a specialized additive used to accelerate the setting speed of cement slurry and improve early strength. It is suitable for shallow wells, low-temperature wells, and cementing operations that require rapid sealing. This product can significantly shorten the initial and final setting time of cement slurry, shorten the waiting time for solidification, quickly form a sealing structure, and improve the early pressure bearing capacity. It has the characteristics of rapid response, convenient addition, and stable performance, and has no adverse effect on the strength of cement paste. It has good compatibility with various oil well cement and admixture systems, and is an ideal additive for improving construction efficiency and operational safety.

Characteristics

Oil well cement coagulant can significantly shorten the setting time of cement slurry, improve early strength, accelerate sealing efficiency, and is suitable for low-temperature shallow wells and emergency cementing operations. The product has good dispersibility, is easy to use, has no adverse effect on the fluidity of cement slurry, has strong compatibility, and is suitable for various oil well cement systems. Has good thermal stability and environmental friendliness, does not corrode equipment, and is safe and reliable for construction.

Technical Specification

Project		Index
Physical and Chemical indicators	Appearance	Fluid powder or granules
	Moisture, %	≤8.0
	Fineness (0.315mm sieve residue), %	≤15.0
Cement Slurry performance	Free liquid volume, ml	≤3.5
	Initial viscosity, Bc	≤30
	Thickening time min/55 °C. 27Mpa. 20min	≤100
	Compressive strength, Mpa/60 °C 8h	≥11

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.



小心轻放



防晒



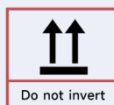
严禁倒置



Handle with care



Sun protection



Do not invert



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