

油井水泥降失水剂 Fluid Loss Additive for Oil Well Cement



产品概述

油井水泥降失水剂外观为白色或浅灰色粉末或颗粒。本品由AMPS、低分子酰胺、多羟基羧酸等聚合改性而成。为流动性粉末或细小颗粒。抗温性能：30~200°C。抗盐性能：淡水直至饱和盐水。降失水性能：API FL100ml以下。水溶性能：易溶于水。本品与其它外加剂配伍性好，适用于各级油井水泥，适用后水泥稳定性好，游离液接近于零，水泥浆稠化过渡时间短，接近直角稠化。适用于低密度、常规密度和高密度水泥浆体系设计，对水泥浆稍有缓凝作用。



性能特点

- 能够显著降低水泥浆的滤失量；
- 具有抗高温抗盐性能；
- 可有效增加水泥石的强度；
- 具有防窜流功能；
- 适用范围广，具有良好的配伍性。

技术指标

项目	指标
外观	白色或浅灰色粉末或颗粒
水分, %	≤8.0
细度 (0.315mm筛余), %	≤15.0
初始稠度, Bc / 80°C. 46.5MPa. 45min	≤30
稠化线形	正常
40Bc~100Bc的时间, min	≤40
失水量, ml / 80°C. 6.9MPa. 30min	≤150
游离液, %	≤1.4
抗压强度, MPa / 102°C. 21MPa. 24h	≥14
水分, %	≤8.0

产品用途

油井水泥用降失水剂的主要作用为降低滤失量、防止流体窜流、增强抗温和抗盐性能等。具体来说，降失水剂通过降低水泥浆的失水量，减少水泥浆在井壁的渗透，从而防止油、气、水的窜槽，提高固井质量。降失水剂还能增强水泥浆的抗温和抗盐性能，适应不同的井况条件，如浅层气井、高压气井、定向井等。

包装与贮存

- 25kg/袋，三合一复合牛皮纸袋包装；也可按客户要求包装。
- 本产品储存保管时应注意防潮、防火、防高温，要求存放通风、干燥处。



小心轻放



防晒



严禁倒置

Product Overview

The oil well cement fluid loss additive appears as a white or light gray powder or granular material. It is a flowable powder or fine particle product polymerized and modified from AMPS, low-molecular-weight amides, polyhydroxy carboxylic acids, and other components. Temperature resistance: 30~200 °C. Salt resistance: From freshwater to saturated brine. Fluid loss performance: API FL ≤ 100 ml. Water solubility: Easily soluble in water. This product has good compatibility with other additives and is suitable for all classes of oil well cement. After application, the cement slurry shows excellent stability with nearly zero free water, short transition time, and near right-angle thickening behavior. It is applicable to low-density, conventional-density, and high-density cement slurry systems. It also provides a slight retarding effect on cement hydration.

Characteristics

- Significantly reduces fluid loss of cement slurry.
- Offers excellent resistance to high temperature and salinity.
- Effectively enhances the strength of set cement.
- Provides anti-gas migration functionality.
- Broad applicability with good compatibility.

Technical Specification

Item	Specification
Appearance	White or light gray powder or granules
Moisture Content, %	≤8.0
Fineness (through 0.315 mm sieve), %	≤15.0
Initial Gel Strength, Bc / 80°C, 46.5 MPa, 45 min	≤30
Gel Strength Development	Normal
Transition Time (from 40 Bc to 100 Bc), min	≤40
Fluid Loss, ml / 80°C, 6.9 MPa, 30 min	≤150
Free Water, %	≤1.4
Compressive Strength, MPa / 102°C, 21 MPa, 24 h	≥14
Water Content, %	≤8.0

Applications

The primary functions of fluid loss additives for oil well cement are to reduce fluid loss, prevent fluid channeling, and enhance resistance to high temperature and salinity. Specifically, fluid loss additives reduce the filtration of cement slurry into the wellbore formation, thereby preventing the channeling of oil, gas, or water and improving the quality of the cementing job. Additionally, they enhance the cement slurry's resistance to high temperatures and salinity, making it suitable for various well conditions such as shallow gas wells, high-pressure gas wells, and directional wells.

Package and Storage

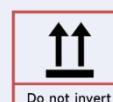
- Packed in 1.25 kg triple-layer composite kraft paper bags; customizable packaging is available upon customer request.
- This product should be stored in a ventilated and dry area, protected from moisture, fire, and high temperatures.



Handle with care



Sun protection



Do not invert



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