G21-L Nanometer Early Strength Additive for Oil Well Cementing

Product Description

This product adopts the nanometer early strength agent made by new technology. The particle surface has highly active unsaturated bonds, and it reacts quickly with calcium hydroxide in the initial stage of hydration to form a small particle size C-S-H gel. The nucleation activation point makes the hydration products continue to grow directly on the surface of the nanoparticles, and promotes the rapid development of cement strength.

Characteristics

- G21-L is synthesized using nanotechnology.
- Water-soluble energy: easily soluble in water.
- Normal dosage: 2.5%~5.0% (BWOC).
- Good compatibility with other admixtures.
- Compatibility with cement: suitable for all levels of oil well cement.
- Suitable for low density,conventional density and high density cement slurry system.
- It can promote the formation of cement strength.

Technical Specification

Items	Specification
Appearance	Uniform and mildew free
Ratio of thickening time,% (32℃,8.3MPa,17min)	≤0.5
Initial consistency , Bc (32℃,8.3MPa,17min)	≤30.0
6-hour compression strength,MPa (32℃,Atmospheric)	≥4.0
24-hour compression strength,MPa (32℃,Atmospheric)	≥1.0

Test condition: G class cement, G21-L 4.0% (BWOC), W/C 0.44, Cement slurry density 1.90±0.01g/cm^3, Water quality: distilled water or drinking water.

Packing, Storage

- Be sacked with plastics barrel, 25kg per barrel.
- Be kept away from moisture in store and transportation.
- Storage life time is one year.

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