PRODUCT DATA SHEET

G31S Fluid Loss Control Additive for Oil Well Cementing

Product Description

G31S reduces the permeability of the cement filter cake through the aggregation of water-soluble polymer molecular chains. By introducing multiple functional groups into the polymer, it enhances temperature and salt resistance.

Characteristics

- G31S is a copolymer of AMPS, low molecular weight amides, multi-hydroxy carboxylic acids, and other modifiers.
- Temperature resistance: 30–160℃.
- Salt resistance: applicable in fresh water to saturated brine.
- Water solubility: readily soluble.
- Typical dosage: 0.5–1.2% (BWOC).
- Good compatibility with other additives.
- Compatibility with cement: suitable for all levels of oil well cement.
- The cement slurry thickening transition time is short, close to right angle thickening.
- Applicable to low-, normal-, and high-density cement slurry systems.
- Has a slight retarding effect on the cement slurry.

Technical Specification

Items	Specification
Appearance	Free-flowing powder or granules without caking.
Water content,%	≤8.0
Fineness (0.315mm sieve),%	≤15.0
Initial consistency , Bc/80℃,46.5MPa,45min	≤30.0
Thickening linear mutation value, Bc.	≤10.0
Transition time, min	≤40.0
Fluid loss,ml/80℃,6.9MPa,30min	≤150.0
Free liquid,%	≤1.4
Compressive strength, MPa/102℃,21MPa,24h	≥14.0

Cement slurry formulation: G-class oil well cement; W/C: 0.44; G31S dosage: 0.8% (BWOC); slurry density: 1.90 ± 0.01 g/cm³; water quality: distilled water or potable water.

Packing, Storage

- Packed in triple-layer composite paper bags, 25kg per bag.
- During transportation, protect the packaging from damage. Store in a cool, dry place.
- Shelf life: two years.

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