

PRODUCT DATA SHEET

G307 Early Strength and Anti-channeling Fluid Loss Control Additive for Oil Well Cementing

Product Description

G307 reduces fluid loss in cement slurry by forming a dense polymer film and increasing the viscosity of the aqueous phase.

Characteristics

- G307 is composed of water-soluble polymers, blended with inorganic early-strength agents and crystalline expansion materials.
- Normal dosage: 1.5%-3.0% (BWOC).
- Effectively enhances the early strength of cement stone.
- With a micro-expansion effect, it can effectively compensate for pressure loss caused by hydration shrinkage, thus preventing gas, oil, or water channeling in the formation.
- Applicable temperature range: 30°C–120°C (BHCT).
- When used together with a retarder, it is suitable for cementing medium-to-deep wells.
- Suitable for dry mixing.

Technical Specification

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

Cement slurry formulation used in the above tests: G-class high sulfate-resistant cement; W/C ratio: 0.44; G307 dosage: 2.5% (BWOC); Water: distilled water or drinking tap water; Slurry density: 1.90±0.01 g/cm³.

Packing, Storage

- Packed in woven bag with inner plastic liner or triple composite bag, 25 kg per bag.
- During transportation, protect from moisture and package damage. Store in a cool, dry place.
- Shelf life: two years.

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