

PRODUCT DATA SHEET

G309 Fluid Loss Control Additive for Oil Well Cementing**Product Description**

G309 controls fluid loss by forming a dense polymer film and relies on the crystal expansion of hydration products to provide expansion

Characteristics

- Appearance: white powder or particles.
- Normal dosage: 0.8%~2.0%(BWOC) for normal density cement slurry, and 1.0%~3.0%(BWOC) for low density cement slurry.
- Applicable temperature: 30°C~120°C (BHCT).
- Low fluid loss and high early strength.
- With micro-expansion, the cement slurry can generate effective expansion both in the plastic phase and after hardening, which prevents gas channeling, enhances compressive and bonding strength, and improves the density of the set cement
- Good slurry rheology, adjustable thickening time, with short transition time in the thickening curve from 40Bc to 70Bc.
- Suitable for dry mixing

Technical Specification

Appearance	White free-flowing powder or granules
Water content, %	≤10.0
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. 6.9MPa.30min	≤150.0
Free fluid, %(80°C)	≤1.4
Compressive strength, MPa / 102°C, 21 MPa, 24 h	≥14.0

Cement slurry formulation: G-class oil well cement; W/C ratio: 0.44; G309 dosage: 1.2% (BWOC); Water: distilled water or drinking tap water; Slurry density: 1.90±0.01 g/cm³.

Packing, Storage

- Packed in triple-layer paper bag, 25 kg per bag.
- During transportation and storage, protect from moisture and package damage. Store in a cool, dry place.
- Shelf life: two years.

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