

PRODUCT DATA SHEET

G310 Fluid Loss Control Additive for Oil Well Cementing**Product Description**

The aggregation of water-soluble polymer molecular chains reduces the permeability of the cement slurry filter cake. The introduction of multiple functional groups enhances resistance to high temperature and salinity.

Characteristics

- G310 is a modified copolymer of low-molecular-weight amide and polyhydroxy carboxylic acid.
- Temperature resistance: 30–200°C.”
- Salt resistance: from fresh water to saturated brine.
- Water solubility: readily soluble in water.
- Normal dosage: 3–6% (BWOS).
- Good compatibility with other additives.
- Cement compatibility: suitable for all classes of oil well cement.
- Good cement slurry stability, with free fluid close to zero.
- Short thickening transition time, approaching right-angle thickening.
- Applicable to low-density, conventional-density, and high-density cement slurry systems.
- Has a slight retarding effect; at medium and low temperatures, the thickening time can be adjusted with accelerators or early strength agents.”

Technical Specification

Appearance	Uniform liquid without mildew
Initial consistency, Bc / 80°C, 46.5 MPa, 45 min	≤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,%	≤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; G310 dosage: 5.0% (BWOC); Water: distilled water or drinking water; Slurry density: 1.90±0.01 g/cm³.

Packing, Storage

- Packed in 50L plastic drums, 50kg per drum, or according to customer requirements.
- During transportation, protect the packaging from damage. Store in a cool, dry place.
- Shelf life: one year.

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