

## PRODUCT DATA SHEET

**G310S 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 into the polymer enhances its resistance to high temperature and salinity.

**Characteristics**

- G310S 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: 0.6–1.5% (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; G310S dosage: 0.8% (BWOC); Water: distilled water or drinking water; Slurry density: 1.90±0.01 g/cm<sup>3</sup>.

**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.

Email: [info@oilchemleader.com](mailto:info@oilchemleader.com)

Website: [www.oilchemleader.com](http://www.oilchemleader.com)

