

## PRODUCT DATA SHEET

**G32S Fluid Loss Control Additive for Oil Well Cementing****Product Description**

G32S reduces the permeability of the cement filter cake through the aggregation of polymer molecular chains. By introducing multiple functional groups into the polymer, it enhances temperature and salt resistance."

**Characteristics**

- Copolymer modified with AMPS, low molecular weight amides, and polyhydroxy carboxylic acids.
- Temperature resistance: up to 160°C.
- Salt resistance: applicable in fresh water to saturated brine.
- Typical dosage: 1.0–3.0% (BWOC).
- Good compatibility with other additives.
- Compatible with all classes of oil well cement.
- Provides good slurry stability, with free fluid approaching zero.
- Short thickening transition time, close to right-angle thickening.
- Applicable to low-, normal-, and high-density cement slurry systems.
- Has a slight retarding effect on the cement slurry.
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**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°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 liquid, %                                | ≤1.4                                           |
| Compressive strength, MPa/102°C, 21MPa, 24h   | ≥14.0                                          |

Cement slurry formulation: G-class oil well cement; W/C: 0.44; G32S dosage: 1.2% (BWOC); slurry density:  $1.90 \pm 0.01$  g/cm<sup>3</sup>; 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.