

PRODUCT DATA SHEET

G301 Fluid Loss Control Additive for Oil Well Cementing**Product Description**

G301 can enhance the viscosity of water phase in cement slurry and form aggregated chains of polymer to plug the pores in mud cake. So it can reduce the permeability of cement filter cake and to control fluid loss.

Characteristics

- Normal dosage: 0.8%~2.0% (BWOC). API fluid loss: ≤ 150 ml.
- Composed of a variety of cellulose derivatives and other related additives.
- Almost no free fluid.
- Dissolve easily.
- No obvious thickening effect on cement slurry, shows slight thixotropic behavior; Has a certain retarding effect, which can be eliminated by using an accelerator, making it easy to design a right-angle thickening cement slurry system..
- Enhance the compression strength of cement gravel.
- Has a definite salt-resisting property.
- Applicable to oil wells whose circulating temperature is between $40^{\circ}\text{C} \sim 120^{\circ}\text{C}$.
- It is more effective when used in combination with the USZ friction-reducing additive.
- Can be used for both dry and wet mixing.

Technical Specification

Appearance	powders or granules
Water content, %	≤ 8.0
Fineness (0.315mm sieve), %	≤ 15.0
Initial consistency, Bc	≤ 30.0
Thickening linear mutation value, Bc	≤ 10.0
Transition time, min	≤ 40.0
Free fluid, %/60 $^{\circ}\text{C}$	≤ 1.4
Fluid loss, ml/60 $^{\circ}\text{C}$, 6.9MPa, 30min	≤ 150.0
Compression strength, MPa/82 $^{\circ}\text{C}$, 0.1MPa, 24h	≥ 14.0

The Ingredients of the cement slurry in the table are: G class cement, W/C 0.44, Dosage of G301: 1.2% (BWOC) + USZ: 0.5%, Water quality: distilled water. The slurry density was 1.90 ± 0.01 g/cm³.

Packing, Storage

- Packed in woven bag with inner plastic liner or triple composite bag, 25kg per bag.
- During transportation, keep the product protected from moisture and damage to the packaging. Store in a cool, dry place.
- Storage life time is two years.