

PRODUCT DATA SHEET

GD-S Flow modifier for Oil Well Cementing**Product Description**

The hydrophobic groups of the flow modifier GD-S are oriented to adsorb on the surface of cement particles, while the hydrophilic groups point to the aqueous solution, forming a single-molecular or multi-molecular layer adsorption film. Due to the directional adsorption of the surfactant, the surface of the cement colloidal particles is charged with the same sign, so under the action of the same sex repulsion, not only can the cement-water system be in a relatively stable suspension state, but also the cement can be in the initial stage of adding water. The formed flocculated structure is dispersed and disintegrated, thereby releasing the water in the flocculating structure to achieve the purpose of improving the flow pattern of cement slurry.

Characteristics

- It is white solid powder.
- The normal dosage is: 0.4%~1.0% , and it is not confined to this range in some particular case.
- Increasing additive dosage, it can adjust the rheology of the cement slurry effectively, and reduce the consistency.
- Consolidate cement stones, enhance its compression strength and control fluid loss.
- With certain retarding property.
- Good compatibility with other additives.

Technical Specification

Items	Specification
Appearance	Free-flowing granules or powder
Fineness (0.315mm sieve),%	≤15.0
Rheology/85℃,0.1MPa	n K,Pa.s ⁿ
	≥ 0.50 ≤ 0.70
Ratio of compression strength /110℃,21MPa,24h	≥ 0.80

The ratio of compression strength: refers to the ratio of the compression strength of cement paste with GD-S to the thickening time of pure cement paste.

Packing, Storage

- Be sacked with plastics bag, 25kg per bag.
- Be kept away from moisture and possible damage of the packages in transportation, and stored in cool and dry situation.
- Storage life time is two years.

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