

PRODUCT DATA SHEET

GH-III High Temperature Retarder for Oil Well Cementing**Product Description**

GH-III can adsorb onto the surfaces of cement hydrates to inhibit contact between cement and water, and chelate calcium ions to prevent premature crystal nucleation. In this way, it effectively retards the hydration of cement slurry.

Characteristics

- Composed of lignosulfonates, organic salts, and other compounds.
- Recommended dosage: 0.1%–3.0% (BWOC).
- Effective at 110°C–200°C (BHCT).
- Significantly extends thickening time, increases pumpability, and enables formulation of right-angle thickening cement slurry systems in medium-deep and deep wells.
- Reduces slurry consistency and improves rheological properties.
- Preferred for dry mixing. For wet mixing, the mixing water should be heated with steam.

Technical Specification

Items	Specification
Appearance	Free-flowing solid without agglomeration
Water content, %	≤8.0
Fineness (0.315mm sieve), %	<15.0
Thickening time(120°C.73.9MPa.61min), min	≥120.0
Initial consistency(120°C.73.9MPa.61min), Bc	≤30.0
Mutation value of thickening curve, Bc	≤10.0
Extension value of thickening time, min	≥60.0
Dosage sensitivity, %	≤25.0
Temperature sensitivity, %	≤20.0
Transition time(120°C.73.9MPa.61min), min	≤40.0
Free liquid(120°C), %	≤1.4
Compressive strength(144°C.21MPa.24h), MPa	≥14.0

Packing, Storage

- Packed in woven bags with inner plastic liner or three-layer composite bags, 25kg per bag.
- During transportation, Protect the packages from moisture and damage . Store in a cool, dry place.
- Shelf life time is two years.

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