

PRODUCT DATA SHEET

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

GH-II adsorbs onto the surfaces of cement hydrates to inhibit contact with water, and chelates calcium ions to prevent premature formation of crystal nuclei, thereby retarding the hydration of cement slurry.

Characteristics

- composed of sulfonates, organic salts, and other compounds.
- Recommended dosage: 0.1–1.0% (BWOC).
- Effective at well temperatures of 110–170°C (BHCT).
- Suitable for medium-deep and deep wells. Effectively prolongs thickening time, increases pumpability, and allows the preparation of right-angle thickening cement slurry systems.
- Reduces slurry consistency and improves rheology.
- It can reduce the consistency of cement slurry and improve the rheology.
- Preferably added in dry form. If wet mixing is required, the mixing water should be heated with steam.

Technical Specification

Items	Specification
Appearance	Free-flowing solid
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
Thickening linear mutation value, 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 fluid(120°C), %	≤1.4
Compressive strength(144°C.21MPa.24h), MPa	≥14.0

Packing, Storage

- Packed in woven bags with inner plastic liner or triple-layer composite bags, 25kg/bag.
- During transportation, protect from moisture and damage.
- Store in a cool, dry place.
- Shelf life : two years.

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