

## PRODUCT DATA SHEET

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

GH-II can stick on the surfaces of cement hydrate to inhibit contacting between cement and water, also stick on the surfaces of crystal nucleons to prevent their enlarging. So it can retard hydrating of cement slurry.

**Characteristics**

- GH-II consists of various kinds of compounds, such as cellulose derivative and hydroxycarboxylic acid.
- Normal dosage: 0.1%~1.0% (BWOC).
- Suitable temperature: 110°C~170°C (BHCT).
- It is used in the medium-deep and deep well. It can prolong the thickening time effectively and increase the pumped time. It can formulate a right angle thickening cement slurry system.
- It can reduce the consistency of cement slurry and improve the rheology.
- Preferred to be mixed without water. Heated by steam if the wet mix is needed.

**Technical Specification**

Items	Specification
Appearance	Free flowing powder
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
Increased sensitivity, %	≤25.0
Temperature sensitivity, %	≤20.0
Transition time(120°C.73.9MPa.61min), min	≤40.0
Free liquid(120°C), %	≤1.4
Compression strength(144°C.21MPa.24h), MPa	≥14.0

**Packing, Storage**

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

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