

PRODUCT DATA SHEET

GH-8 Retarder for Oil Well Cementing**Product Description**

GH-8 works by adsorbing onto the surface of cement hydration products to inhibit contact with water, as well as adsorbing onto the crystal nuclei of hydration products to prevent further growth. This effectively delays the hydration of the cement slurry.

Characteristics

- GH-8 is composed of various compounds, such as gluconates and low molecular weight organic acids.
- Non-toxic, non-corrosive, and odorless.
- Typical dosage: 0.5% to 2.0% (based on total solid content). The dosage should be increased appropriately with rising temperatures.
- Reduces the consistency of the cement slurry and improves its rheological properties.
- Effectively extends the thickening time of the cement slurry.
- Typically used in oil wells with a bottom hole circulating temperature (BHCT) ranging from 110°C to 160°C.

Technical Specification

Items	Specification	
	Solid	Liquid
Appearance	Non-caked solid	Uniform, mold-free liquid
Thickening time (120°C/73.9 MPa/61 min)	≥120 min	
Initial consistency (120°C/73.9 MPa/61 min), Bc	≤30.0	
Mutation value of thickening curve, Bc	≤10	
Thickening time extension, min	≥60	
Dosage sensitivity, %	≤25	
Temperature sensitivity, %	≤20	
Transition time (120°C/73.9 MPa/61 min)	≤40 min	
Free liquid (93°C), %	≤1.4	
Compressive strength (144°C/21 MPa/24 h), MPa	≥14.0	

Packing, Storage

- Solid form: Packed in triple-layer plastic bags or composite packaging, with 25 kg per bag.
- Liquid form: Packed in plastic barrels, with 25 kg per barrel.
- Store in a well-ventilated, dry, and clean warehouse.
- Keep the product away from moisture, direct sunlight, and rain during storage and transportation.
- The solid product has a shelf life of 2 years, while the liquid product has a shelf life of 1 year.

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