

## PRODUCT DATA SHEET

**G209 Early Strength Additive for Oil Well Cementing****Product Description**

G209 can change ion concentration in cement hydrate to accelerate the acting of  $C_3S$ 、 $C_3A$  and forming of calcium aluminous stone. So it can densify the structure and enhance early strength.

**Characteristics**

- G209 main consists of inorganic compound.
- Normal dosage: 1.5%~4.0% (BWOC).
- Suitable temperature: 28℃~110℃(BHCT).
- Suitable for low and conditional density cement slurry .
- Suitable for low density cement slurry of fly ash ,normal oil well cement and low density cement slurry of glass micro-spheres.
- Preferred to mix with water.

**Technical Specification**

Items	Specification
Appearance	Free flowing powder
Fineness (0.315mm sieve),%	≤15.0
Thickening time ratio/32℃,8.3MPa,17min	≤0.5
Initial consistency, Bc/32℃,8.3MPa,17min	≤30.0
Compression strength, MPa/39℃,normal pressure,6h	≥4.0
Compression strength ratio, MPa/39℃,normal pressure,24h	≥1.0

Note 1: The thickening time ratio refers to the thickening time of cement slurry with early strength agent and the thickening time of pure cement slurry.

Note 2: Compression strength ratio refers to the compression strength of cement with early strength agent and the ratio of compression strength of pure cement slurry.

Note 3: Content in brackets is test conditions.

The ingredient of cement slurry in the table is: JiaHua G class cement, W/C: 0.44,

G209 :2.0% (BWOC), Water quality: distilled water.

**Packing, Storage**

- Be sacked with three-layer plastics bag, 25kg per bag.
- Be kept away from moisture, Stored in cool and dry situation.
- Storage life time is two years.

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