

PRODUCT DATA SHEET

G203A Early Strength Additive for Oil Well Cementing**Product Description**

G203A accelerates cement hydration and enhances the early strength of cement stone by modifying the C-S-H structure and altering the composition of water-phase ions.

Characteristics

- G203A is composed of inorganic early-strength materials.
- Typical dosage: 1.0% to 4.0% (BWOC).
- Significantly increases the early strength of cement stone without adversely affecting the later strength development.
- Suitable for oil and gas wells with temperatures between 30°C and 90°C (BHCT).
- Effectively shortens the thickening time of cement slurry and enhances the early strength of cement stone.
- Cement slurry containing G203A exhibits slight thixotropic properties.

Technical Specification

Items	Specification
Appearance	Free-flowing powder
Fineness (0.315mm sieve), %	≤15.0
Thickening Time Ratio (32°C, 8.3 MPa, 17 min)	≤0.5
Initial Consistency (Bc) (32°C, 8.3 MPa, 17 min)	≤30.0
Compressive Strength (MPa) (39°C, normal pressure, 6h)	≥4.0
Compression Strength Ratio (MPa) (39°C, normal pressure, 24h)	≥1.0

Notes:1.The thickening time ratio refers to the ratio of thickening time of cement slurry with early strength agent to the thickening time of pure cement slurry.2.The compression strength ratio refers to the ratio of compressive strength of cement with early strength agent to the compressive strength of pure cement slurry.3.The content in parentheses indicates the test conditions.

The typical formulation for the cement slurry is as follows:G-grade high-resistance oil-well cement: 792g ± 0.5g,Water: 349g ± 0.5g ,Early strength agent G203A: 2.0% (BWOC) ,Water-to-cement ratio: 0.44,Water quality: Distilled water or potable water.

Packing and Storage

- Packaged in a triple-layer plastic bag, 25 kg per bag.
- Store in a well-ventilated, dry, and clean warehouse. During transportation, avoid mixing with harmful substances, and protect from sunlight and rain. The product should be covered during transportation.
- Shelf life: 2 years.

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