

## PRODUCT DATA SHEET

**G403 Channeling-control Toughening Additive for Oil Well****Cementing****Product Description**

G403 anti-channeling toughener relies on the crack-resistance and toughening properties of composite fibers, the use of fiber to load transfer, so that the internal defects of cement paste stress dispersion, increase the impact resistance of cement stone; Which can improve the load capacity of visible crack of cement stone and prevent the stress cracking of cement stone. Under the action of load, the crack propagation can be prevented and the stress field of crack tip can be shielded under the strong impact load, so the toughness of cement stone is improved and the protection of oil and gas Layer, to prevent perforation caused by brittle defects. At the same time the product has a certain micro-expansion, to compensate for the cement slurry (stone) contraction, and produce a slight expansion of the volume is conducive to prevent oil, gas, water channeling.

**Characteristics**

- Non-poisonous or non-odor;
- Normal dosage: 1.5%~2.5%(BWOC).
- No harmful on thickening time, rheological properties and free fluid control of cement slurry. Enhance compression strength obviously.
- Suitable for cement slurry with normal and low density.
- Suitable for dry mixing, can not be mixed with water.

**Technical Specification**

Items	Specification
Appearance	Free flowing powder
Initial consistency , Bc/52℃,35M.6Pa,28min	≤30.0
Mutation value of thickening curve,Bc	≤10.0
Increasing flexural strength,%/75℃.0.1 MPa.48 h	≥15.0
Increasing impact energy,%/75℃.0.1 MPa.48 h	≥15.0
Compression strength, MPa/75℃,0.1 MPa,48h	≥14.0
The ingredient of the cement slurry in the table is: JiaHua G class: cement, W/C 0.44	
Dosage of G403: 1.8%(BWOC). Water quality: distilled water .	

**Packing, Storage**

- Be sacked with three-layer plastics bag, 25kg per bag.
- Be kept away from acid, alkali and moisture.
- Storage life time is two years.

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