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High Temperature Oil Well Cement Retarder GDM-5S

1. Property

GDM-5S is double carboxylic acid group and sulfonate group reacted with tricalcium aluminate and silicate tricalcium. Through adsorption, chelation, wetting and dispersing, etc. adsorption, chelation, dispersing and wetting role in the early cement hydration electric double layer by diffusion dispersing cement particles in the cement particle surface with calcium ions to form solvated film preferentially adsorbed on tricalcium aluminate slowing the hydration performance of a strong retarding effect, while the performance of the tricalcium silicate weak adsorption properties, thus ensuring the latter part of cement strength development.

2. Quality indexes

Items	Specification
Appearance	white powder
Moisture content,%	≤8.0
Fineness, (0.315mm, Sieve residue) %	≤15.0
Initial consistency, Bc/120°C,73.9MPa.61min	≤30.0
Adjustable thickening time	adjustable
40BC~100BC transit time, min	≤40.0
Free fluid, %	≤2.5
Compression strength, Mpa/144°C,21Mpa.48h	≥14.0

The ingredient of cement slurry in the table is: Jia Hua class G cements 594g + JQ-III 208g (160~200mesh) +distilled water 333g. Dosage of GDM-5S: 0.9% (BWOC) +1.2% (BWOC) GM41

3. Function

- GDM-5S consists of sulfonate, organic acid etc.
- Appearance: white powder, density is nearly 1.2g/cm³.
- Normal dosage: 0.3%-2.5 % (BWOC).
- Good effective in temperature range: 60~180°C
- Used in middle-deep well and deep well, Retard the thickening time efficiently. Increase the pump ability time.
- Have a strong dispersing performance

4. Storage & package

Be packed with 25kg/sack. Be kept away from moisture and possible damage of the packages in transportation. It stored in cool and dry situation and storage life for two years.