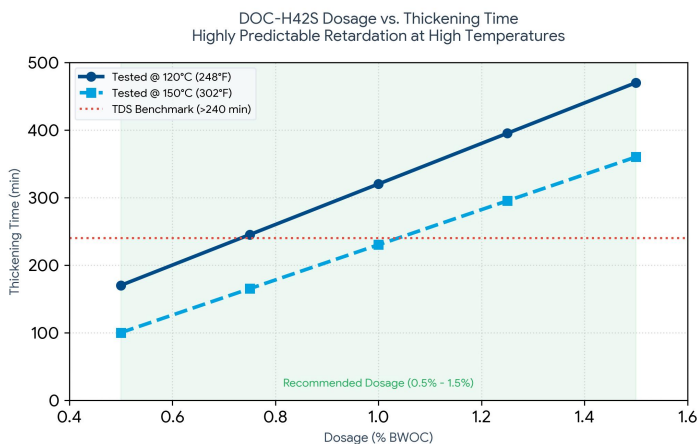


DOC-H42S Solid High Effective Retarder

Polymer Retarder Formulated Over a Wide Temperature Range (60°C - 210°C)

1. Performance Highlight (Dosage vs. Thickening Time)

According to laboratory evaluations, DOC-H42S provides a highly effective and predictable extension of thickening time across various extreme temperatures. The typical relationship between product dosage and cement slurry thickening time at 120°C and 150°C (70 MPa) is demonstrated below:



2. Features & Benefits

- **Wide Temperature Range Applicability:** Exceptionally versatile polymer retarder suitable for a very broad range of Bottom Hole Circulating Temperatures (BHCT) from 60°C up to extreme 210°C.
- **Highly Predictable Retardation:** Provides a strong and predictable linear thickening profile, ensuring a safe and controllable pumping window even in ultra-deep well environments.
- **Zero Negative Impact on Slurry:** Highly effective in delaying hydration time without causing any adverse effects on the final compressive strength development or other critical rheological properties of the cement slurry.

- **Excellent Water Quality Tolerance:** Exhibits robust performance regardless of the mix water; it has no special requirements for water quality.

3. Technical Specifications & Slurry Properties

Property Item	Technical Specification / Index
Appearance	Light yellow solid
Density (20 ± 2°C, g/cm³)	0.8 ± 0.05
Water Content (%)	< 5.0%
Applicable Temperature Range	60°C - 210°C (BHCT)
Recommended Field Dosage	0.5% - 1.5% (BWOC)

Slurry Performance Item	Index	Test Condition
Thickening Time (min)	> 240	150°C, 70 MPa

4. Packaging & Storage

- **Packaging:** Packaged in 25 Kg three-in-one bags, or based on specific customer's request.
- **Storage Conditions:** Should be stored in cool, dry and ventilated areas. Avoid being exposed to direct sun and rain. The shelf life is 24 months.

To obtain the Material Safety Data Sheet (MSDS) or to learn more about laboratory application schemes, please contact us directly: QINGDAO DIMENSIONAL COPOLYMERIZATION ENERGY CO., LTD.

Website: www.dicoenergy.com | Technical Support Email: info@dicoenergy.com