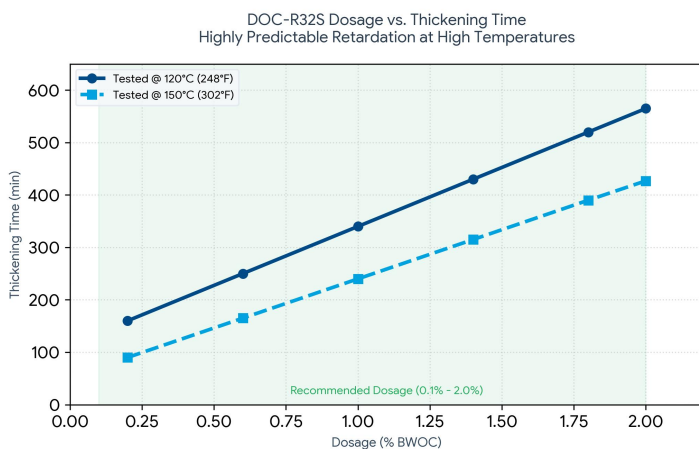


DOC-R32S High Temperature Retarder

Polymer-Based Retarder for Rapid Strength Development & Long Sealing Sections

1. Performance Highlight (Dosage vs. Thickening Time)

According to laboratory evaluations, DOC-R32S exhibits a highly adjustable and regular linear thickening profile under high-temperature and high-pressure conditions. The typical relationship between product dosage and cement slurry thickening time at 120°C and 150°C is demonstrated below:



2. Features & Benefits

- **Ideal for Long Sealing Sections:** Innovatively designed to prevent super-retarding at the top of the sealing section, making it exceptionally suited for long cementing operations.
- **Rapid Strength Development:** Effectively prolongs the pumping window while allowing for a rapid development in the compressive strength of the cement stone once placed.
- **Predictable & Adjustable Linearity:** Provides a strong, regular linear extension of thickening time as dosage increases.
- **Universal Water Suitability:** Fully compatible and highly effective when mixed with freshwater, saltwater, and seawater.

- **Zero Negative Impact:** Operates flawlessly without causing any adverse effects on other crucial rheological properties of the cement slurry.

3. Technical Specifications & Slurry Properties

Property Item	Technical Specification / Index
Appearance	White or light yellow powder
Chemical Base	Polymeride
Applicable Temperature Range	93°C - 180°C (BHCT)
Recommended Field Dosage	0.1% - 2.0% (BWOC)

Slurry Performance Item	Index	Test Condition
Tunability of Thickening Time	Adjustable	150°C / 73min, 94.4 MPa
Thickening Linearity	Normal (Excellent)	150°C / 73min, 94.4 MPa
Transition Time (40-100 Bc, min)	< 40	150°C / 73min, 94.4 MPa

* Base Slurry Reference Formulation: Grade G cement 600g, Silicon powder 210g, Fresh water 319g, DOC-610S 12g, DOC-R32S 4.5g, Defoamer DOC-D15L 2g.

4. Packaging & Storage

- **Packaging:** Packaged in 25 Kg bags, or according to specific customer requirements.
- **Storage Conditions:** Should be stored in cool, dry and ventilated areas. Avoid being exposed to direct sun and rain. The shelf life is 12 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