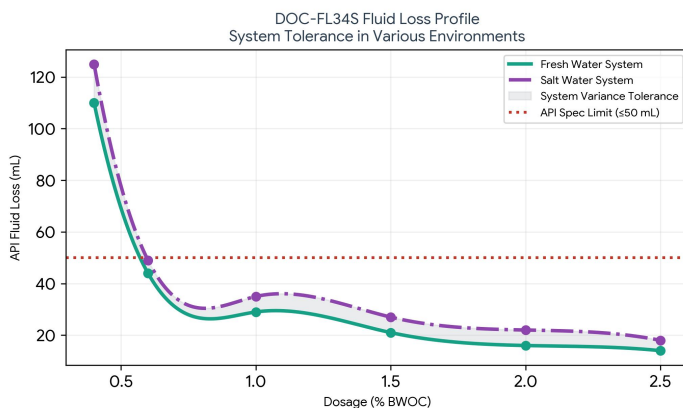


DOC-FL34S Fluid Loss Additive

Polymer Fluid Loss Reducer for Low-Density & Anti-Gas Channeling Systems

1. Performance Highlight (Dosage vs. Fluid Loss Curve)

According to laboratory evaluations, the typical relationship between product dosage and fluid loss under constant testing conditions (Time: 30 min | Temperature: 52°C | Pressure: 6.9 MPa) for both freshwater and 18% saltwater systems is demonstrated below:



2. Features & Benefits

- **Efficient Fluid Loss Control:** A high-performance polymer fluid loss reducer that can tightly control water loss in cement slurries even at low dosages (0.6% - 2.5%).
- **Strong Salt Resistance:** Performs exceptionally well in saline environments, capable of withstanding up to 18% salt water without losing significant efficiency.
- **Ideal for Low-Density Systems:** Fluid loss can be well controlled in low-density slurry systems while maintaining high early compressive strength.
- **Anti-Gas Channeling Performance:** Demonstrates a short transition time (40-100 Bc < 20 min) and normal thickening linearity, preventing gas migration and ensuring zonal isolation.
- **Wide Temperature Applicability:** Reliable performance across a very broad application temperature range from 30°C to 200°C.

3. Technical Specifications & Slurry Properties

Property Item	Technical Specification / Index
Appearance	White or light yellow powder
Water Content (%)	< 5.0%
20 Mesh Retention Rate (%)	≤ 0.5%
60 Mesh Pass Rate (%)	≥ 85.0%
Recommended Field Dosage	0.6% - 2.5% (BWOC)

Slurry Performance Item	Index	Test Condition
Fluid Loss (mL)	< 50	52°C, 6.9 MPa, 30min
Free Fluid (%)	< 0.2	Ambient
Initial Consistency (Bc)	< 30	52°C, 21 MPa / 26min
Transition Time (40-100 Bc, min)	< 20	52°C, 21 MPa / 26min
Thickening Time (min)	50 - 100	52°C, 21 MPa / 26min
Compressive Strength (MPa)	≥ 14	52°C, Atmospheric pressure

* Base Slurry Reference Formulation: 'G' grade cement 700g, Fresh water 308g, DOC-FL34S 4.2g (approx. 0.6% BWOC), Defoamer 2g.

4. Compatibility, Packaging & Storage

- **Compatibility:** DOC-FL34S has excellent compatibility with other commonly used additives, such as retarders and dispersants, without causing slurry instability.
- **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 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.

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