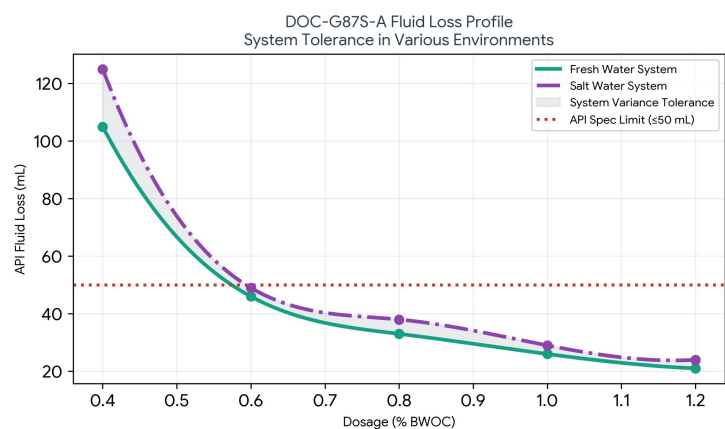


DOC-G87S-A Fluid Loss Reducing Agent

Versatile, Non-Retarding Polymer

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

According to API RP 10B-2 standard laboratory evaluations, the typical relationship between product dosage and API fluid loss under constant testing conditions (Time: 30 min | Temperature: 52°C | Pressure: 6.9 MPa) is demonstrated below:



2. Features & Benefits

- Wide Temperature Applicability: Highly versatile and suitable for a wide range of temperatures, with excellent high-temperature resistance up to 180°C (BHCT).
- Excellent Slurry Rheology: Improves the fluidity and stability of the cement slurry system. Ensures low initial consistency (< 25 Bc) for safe and efficient pumping operations.
- Non-Retarding & Rapid Strength Development: Exhibits non-retarding properties, allowing for the rapid development of set-cement compressive strength (≥ 14 MPa at 24h, 52°C).
- Zero Free Water Risk: Effectively controls free fluid to ≤ 1.0 mL, preventing gas channeling and ensuring long-term zonal isolation.
- High Salinity Tolerance: Has no special requirements for water quality. Performs exceptionally well in various environments, from fresh water to salt water systems.

3. Technical Specifications & Slurry Properties

| Property Item            | Technical Specification / Index |
|--------------------------|---------------------------------|
| Appearance               | White or light yellow powder    |
| Stacking Density (g/cm³) | 0.80 ± 0.20                     |
| Water Solubility (%)     | 100%                            |
| Moisture (%)             | < 5.0%                          |
| Recommended Field Dosage | 0.6% (BWOC)                     |

| Slurry Performance Item    | Index | Test Condition                  |
|----------------------------|-------|---------------------------------|
| Water Loss (mL)            | < 50  | 52°C, 6.9 MPa                   |
| Free Water (mL)            | ≤ 1.0 | 52°C, Atmospheric pressure      |
| Thickening Time (min)      | ≥ 60  | 52°C, 35.6 MPa / 26 min         |
| Initial Consistency (Bc)   | < 25  | 52°C, 35.6 MPa / 26 min         |
| Compressive Strength (MPa) | ≥ 14  | 52°C, Atmospheric pressure, 24h |

\* Base Slurry Reference Formulation: 100% G grade cement (high sulfur resistance) + 47.0% mixed water + 0.6% DOC-G87S-A + 0.5% DOC-X60L.

4. Compatibility, Packaging & Storage

- Compatibility: DOC-G87S-A has excellent versatility and can be applied to many kinds of cement slurry systems without adverse reactions.
- Packaging: Packaged in 25 Kg multi-ply paper sacks with an inner high-strength waterproof plastic film, or packaged based on specific global customer requests.
- Storage Conditions: Should be stored in cool, dry, and well-ventilated dedicated warehouse areas. Avoid exposure to direct sunlight and rain. The shelf life is 12 months in unopened conditions.

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](http://www.dicoenergy.com) | Technical Support Email: [info@dicoenergy.com](mailto:info@dicoenergy.com)