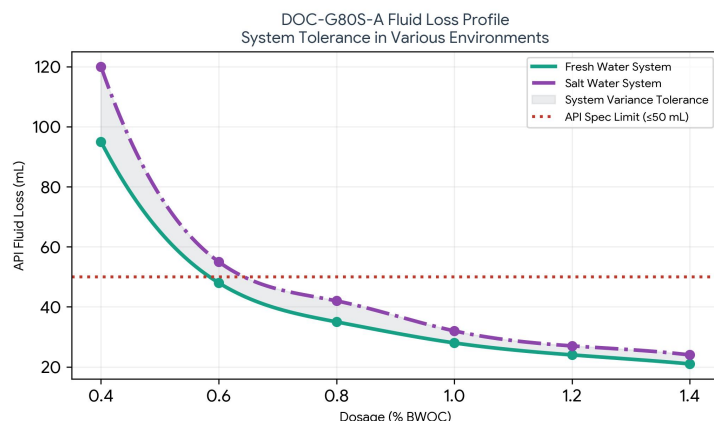


DOC-G80S-A High-Temperature AMPS Fluid Loss Additive

Sulfonic Acid Copolymer for Challenging Oil Well Cementing Conditions

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: 50°C | Pressure: 6.9 MPa) is demonstrated below:



2. Features & Benefits

- **Efficient Fluid Loss Control:** Significantly decreases cement slurry fluid loss. API fluid loss is controlled within 50 mL at standard dosages and can reach below 30 mL with increased dosage.
- **Excellent Salt Resistance:** Demonstrates outstanding salinity tolerance, making it fully applicable in saturated salt water environments as well as fresh water systems.
- **Zero Free Water Risk:** Effectively controls slurry free water to less than 1 mL, ensuring exceptional slurry stability and preventing gas channeling or sedimentation/stratification.
- **No Adverse Effect on Strength:** Within the temperature range of 70 to 90°C, the thickening time increases slightly with temperature, providing a safe operational window without retarding the development of set-cement compressive strength.

- **High Operational Safety:** Low sensitivity to field dosage variations with no catastrophic performance flash-setting points, ensuring safe and reliable mixing and placement operations.

3. Technical Specifications & Slurry Properties

Property Item	Technical Specification / Index
Appearance	White or light yellow powder
Bulk Density	0.6 ± 0.20
pH Value	6 ~ 7
Solubility	Soluble in water
Recommended Field Dosage	0.6% ~ 1.0% (BWOC)

Cement Slurry Performance Test (50°C, 6.9 MPa, 30 min)

Specification Requirement
API Fluid Loss (30min)
Free Water

≤ 50 mL
< 1 mL

* Base Slurry Reference Formulation: Jiahua SD Grade G Oil-Well Cement 800g, Fresh Water 352g, DOC-G80S-A 4.8g, along with other required functional additives.

4. Compatibility, Packaging & Storage

- **Compatibility:** Offers widespread compatibility, suitable for all grades of oil-well cements defined by GB10238 or API Spec 10A standards. It can be used alone or synergistically with medium-temperature retarder (DOC-H21L), high-temperature retarders (DOC-H31L), and early dispersants (DOC-F41L).
- **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 24 months in unopened conditions.

To obtain the Material Safety Data Sheet (MSDS) or to learn more about laboratory application schemes, please contact us directly:
Website: www.dicoenergy.com | Technical Support Email: info@dicoenergy.com