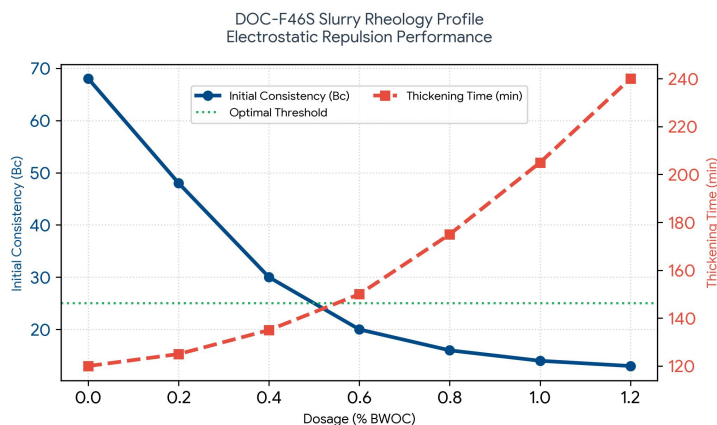


DOC-F46S Cementing Dispersant

Polycarboxylic Acid Compound Dispersant for Superior Slurry Rheology

1. Performance Highlight (Rheology & Retarding Effect)

DOC-F46S effectively reduces the initial consistency of the cement slurry through electrostatic repulsion between ions. As shown in the chart below, it significantly improves flowability while exhibiting a highly predictable auxiliary retarding effect (prolonging thickening time) as dosage increases:



2. Features & Benefits

- **Excellent Dispersion:** Strongly absorbs onto the surface of cement particles, drastically reducing slurry consistency through electrostatic repulsion.
- **Broad Temperature Application:** Highly versatile and operates reliably in extreme well environments up to 180°C (BHCT).
- **Auxiliary Retarding Effect:** Prolongs the thickening time of the cement slurry alongside dosage increase, providing a safe and extended pumping window.
- **Optimizes Slurry Flowability:** Lowers initial consistency safely below 25 Bc, creating ideal conditions for turbulent flow displacement and improving cementing efficiency.

- **Great Compatibility:** Mixes well with other common cementing additives without causing unstable chemical reactions.

3. Technical Specifications & Physical Data

Property Item	Technical Specification / Index
Appearance	Red brown powder
Chemical Base	Mixture of polycarboxylic acid, aldehydes and ketones
Density (g/cm ³)	2.60 ± 0.20
pH (1-2% aqueous solution)	7 ~ 8
Applicable Temperature	≤ 180°C (BHCT)
Recommended Field Dosage	0.5% - 1.0% (BWOC)

4. Packaging & Storage

- **Packaging:** Packaged in 25 Kg multi-ply paper sacks with waterproof plastic film inside. Customized packaging is available upon request.
- **Safety & Handling:** Non-flammable and non-explosive. Avoid skin contact and inhalation of dust. If sucked into lungs, it may cause lung damage.
- **Storage Conditions:** Should be stored in cool, dry and ventilated areas. Avoid being exposed to the sun and rain. 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