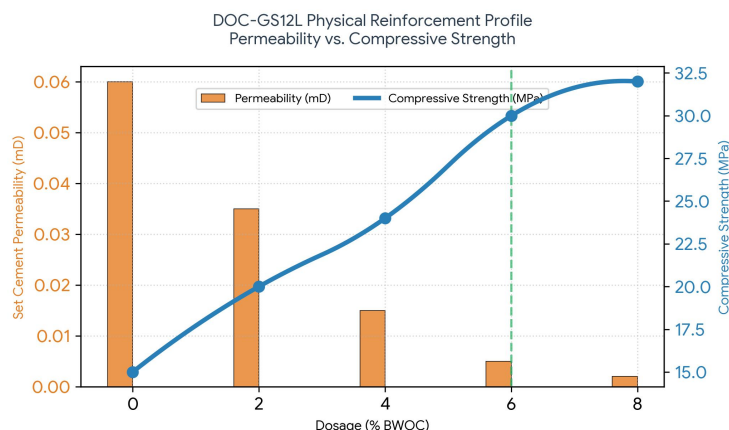


# DOC-GS12L Anti-Channeling Enhancer

Nanoscale High Hydration Activity Microparticle for Gas-Stop Ability

## 1. Performance Highlight (Permeability & Strength Development)

DOC-GS12L acts as a powerful enhancer that reacts with  $\text{Ca}(\text{OH})_2$  to form a dense gel during the hydration process. The following chart illustrates how the recommended 6.0% dosage significantly boosts compressive strength while drastically reducing set cement permeability, achieving optimal gas-stop ability:



## 2. Features & Benefits

- **Nanoscale Microparticle Technology:** Specifically designed with high hydration activity to prompt a rapid and robust cement strength development.
- **Superior Gas-Stop Ability:** Significantly decreases the permeability of the set cement, making the matrix highly compact to block gas channeling effectively.
- **Wide Operational Application:** Highly versatile and widely used in Adjustment wells, Gas wells, Gassed-out wells, Exceptional wells, and Complex wells.
- **Universal Slurry Compatibility:** Can be reliably used in almost all types of cement slurry systems without adverse reactions.
- **Broad Temperature Range:** Effective in a wide operational temperature range from 20°C up to 180°C (BHCT).

## 3. Technical Specifications

| Property Item                                    | Technical Specification / Index |
|--------------------------------------------------|---------------------------------|
| Particle Size (>45 $\mu\text{m}$ , %)            | $\leq 0.1\%$                    |
| pH Value                                         | 6.0 - 9.0                       |
| Density (20°C, $\text{g}/\text{cm}^3$ )          | 1.30 - 1.40                     |
| Apparent Viscosity ( $\text{mPa}\cdot\text{s}$ ) | < 40                            |
| Solid Content (%)                                | 47.0 - 50.0%                    |
| Pour Point (Winter, °C)                          | $\leq -10^\circ\text{C}$        |
| Recommended Field Dosage                         | 6.0% (BWOC)                     |
| Applicable Temperature                           | 20°C - 180°C (BHCT)             |

## 4. Packaging & Storage

- **Packaging:** Packaged in 280 kg plastic drums.
- **Storage Conditions:** Store in a tightly closed container within a cool, dry, and well-ventilated area. Keep away from heat and open flames.

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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