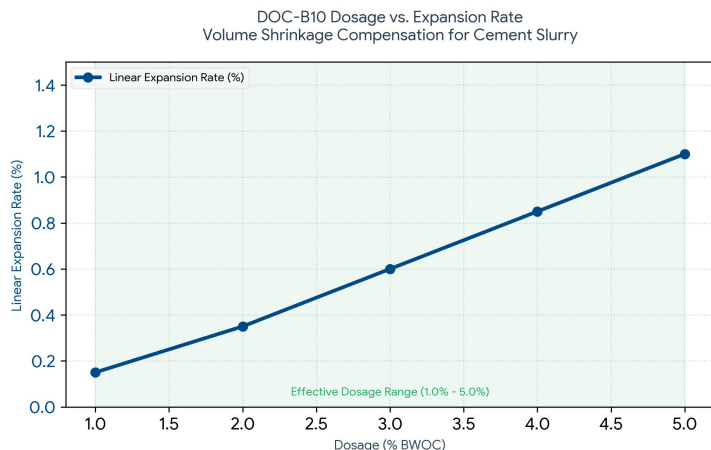


DOC-B10 Low Temperature Expansion Agent

High-Purity Calcium Sulfate Dihydrate for Shrinkage Compensation

1. Performance Highlight (Expansion Rate)

DOC-B10 is designed to compensate for the volume shrinkage of cement slurries during the hydration process. The following chart illustrates the typical relationship between product dosage and linear expansion rate:



2. Features & Benefits

- **Volume Shrinkage Compensation:** Effectively expands during cement hydration to counteract natural shrinkage, preventing micro-annuli formation and ensuring tight bonding to the casing and formation.
- **Low-Temperature Optimization:** Specifically formulated to provide reliable and consistent expansion performance in low-to-medium temperature well environments.
- **High Purity & Stability:** Composed of high-purity Calcium Sulfate Dihydrate ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$), ensuring stable chemical properties and predictable expansion behavior.
- **Versatile Industrial Application:** Widely used as the main material for concrete expansion agents, anti-cracking agents, and self-leveling mortars.
- **Excellent Compatibility:** Highly compatible with other cementing additives and suitable for various cement systems.

3. Technical Specifications & Physical Data

Property Item	Technical Specification / Index
Appearance	White or light yellow powder
Chemical Composition	$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ (Calcium sulfate dihydrate)
Density (g/cm^3)	2.3 ± 0.1
Particle Size (80-120 mesh pass rate)	$\geq 80\%$
Theoretical Composition	CaO: 32.5%, SO ₃ : 46.6%, H ₂ O: 20.9%

4. Packaging & Storage

- **Packaging:** Packaged in 25 Kg multi-ply paper sacks with an inner waterproof plastic film, or customized based on customers' requests.
- **Storage Conditions:** Should be stored in cool, dry and ventilated areas. Avoid being exposed to the sun and rain.

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