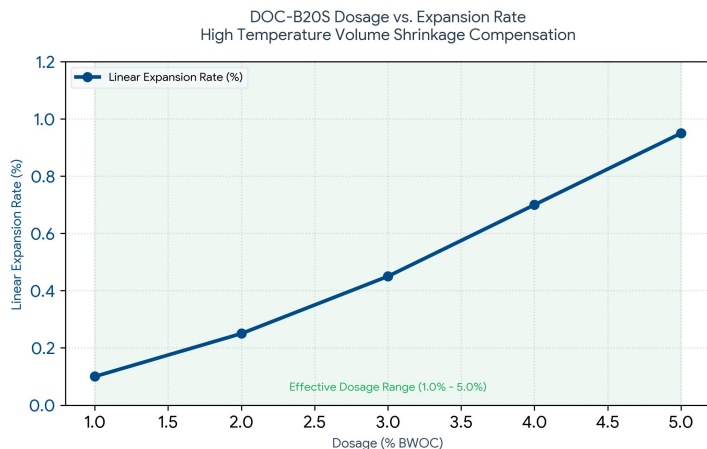


DOC-B20 High Temperature Expansion Agent

High-Purity Magnesium Oxide for Shrinkage Compensation

1. Performance Highlight (Expansion Rate)

DOC-B20 is designed to compensate for the volume shrinkage of cement slurries during the hydration process, specifically formulated for high-temperature well cementing. 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.
- **High-Temperature Optimization:** Specifically formulated with Magnesium Oxide (MgO) to provide reliable and consistent expansion performance in high-temperature well environments.
- **High Purity & Stability:** Composed of high-purity alkaline oxide (>92% Activity), ensuring stable chemical properties and predictable expansion behavior.
- **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
Main Ingredient	Magnesium Oxide (MgO)
Activity (%)	> 92%
CaO Content (%)	< 2.0%
Sieving Residue (150µm test sieve)	< 0.05%
Fe Content (%)	< 0.01%
Chloride (Cl) (%)	≤ 0.30%
Loss on Ignition (%)	≤ 5.5%
Bulk Density (g/cm ³)	< 0.25

4. Packaging & Storage

- **Packaging:** Packaged in 25 Kg multi-ply paper sacks with waterproof plastic film inside. Or based on customers' request.
- **Storage Conditions:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

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