



DOLOMITE DBD-S (Dead-Burned Dolomite)

CAS No.: 16389-88-1

DESCRIPTION

Chemport Dolomite DBD-S is a finely powdered, fully calcined grade of magnesium–calcium oxide (dead-burned dolomite). High-temperature calcination produces a dense, tan-to-beige mineral with low reactivity and stable chemistry. The powder disperses readily into cementitious systems and blends cleanly with other mineral fillers. Consistent bulk and tapped densities support repeatable batching and flow in dry-mix operations.

KEY FEATURES

- Dense, fully-calcined structure (low reactivity)
- Excellent compatibility with cementitious systems and mineral fillers
- Stable chemical composition under high-temperature / down-hole conditions
- Uniform bulk and tapped densities for predictable flow & batching
- Tan-to-beige colour for improved aesthetic and inclusion visibility in dry-mixes
- Optimised for oil-well cementation environments (shrinkage-reduction, dimensional stability)

APPLICATIONS

- Oil-well cementation: formulated as a shrinkage-reduction agent, helping manage volumetric changes and support dimensional stability under down-hole conditions.
- Typical dosages should be established by pilot testing to meet density, rheology, and set-time targets.
- Suitable for incorporation into cement slurries across typical oilfield temperature/pressure windows — verify compatibility with other admixtures in the slurry design.

TYPICAL SPECIFICATIONS

Parameter	Specification
MgO (Magnesium Oxide)	38.0 % (range: 36.6 – 44.9 %)
CaO (Calcium Oxide)	61.0 % (range: 54.0 – 65.0 %)
SiO ₂ (Silicon Oxide)	0.40 % (minimum)
Fe ₂ O ₃ (Iron Oxide)	0.50 % (max: ≤ 2.00 %)
Al ₂ O ₃ (Aluminum Oxide)	0.20 % (minimum)

PHYSICAL PARAMETERS

- Appearance: Tan to beige powder
- Particle Size: 90 % passing 100 mesh (150 µm)
- Bulk Density (typical): 0.8–1.1 g/cm³
- Tapped Density (typical): 1.2–1.8 g/cm³
- Absolute Density (specified min): 3.19 g/cm³





**LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.**

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This document is subject to revision without notice as new data becomes available.

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PACKAGING

25 kg bags; 50 lb bags; or 1 MT bulk super sacks.

STORAGE

Dead-burned dolomite absorbs moisture from air and may clump/expand. Store unopened in a clean, dry area with pallets off the floor; reseal partial bags promptly. Use oldest stock first

SAFETY & HANDLING

Handle with standard precautions for alkaline mineral powders. Avoid dust generation; use appropriate PPE (eye protection, gloves, P2/N95 respirator as required). Refer to the product SDS for detailed health, safety, and first-aid information.