



Ground Calcium Carbonate DBM-CS04 (Mesh 400)

Product Features

Calcium Carbonate Powder is a high-purity, finely ground mineral offering excellent whiteness, chemical stability, and low moisture content. With customizable particle sizes and environmentally friendly properties, it enhances product performance while maintaining high workability and durability.

Technical Specifications

Chemical Analysis

CaCO ₃ (%)	99
CaO (%)	55.64
MgO (%)	0.46
Fe ₂ O ₃ (Max. %)	0.02
Al ₂ O ₃ (%)	<0.5
SiO ₂ (Max. %)	0.07
Hcl Insoluble (%)	<0.5
Loss of Ignition (%)	43.75

Physical Properties

Whiteness (%)	95-96
Brightness (%)	95-96
Moisture	<0.3
PH value (%)	8-9
Hardness (MOHS)	3
Oil absorption (ML oil/100gr)	18-20

General Data / Particle Size

Mean grain size D ₅₀ (μ)	6.23
Top – cut D ₉₇ (μ)	3.17
Specific Gravity (g/ cm ³)	2.71
Bulk Density (g/ cm ³)	2.71
Appearance	White

Product Variants

Calcium Carbonate Powder is available in a range of particle sizes to suit various applications, including fine powders (200 mesh, 400 mesh, 600 mesh, 800 mesh, 1500 mesh, 2500 mesh and 3500 mesh). Custom formulations and packaging options are also available to meet specific project requirements. Whether you need high-purity calcium carbonate for specialized applications or standard grades for general use, we offer tailored solutions as well.

Packaging Information

Calcium Carbonate Powder is available in various packaging options to suit your needs, including 25 kg PP bags with or without jumbo bags or pallet and bulk packaging in jumbo bags. All packaging is designed for easy handling, storage, and transportation, ensuring the product remains dry and protected from moisture.

Application and Usage

Calcium carbonate powder is widely used in various industries such as;

- >> Construction: Used as a key ingredient in cement, asphalt and building materials to enhance durability and workability.
- >> Paints and Coatings: Acts as a filler to improve whiteness, opacity, and surface finish.
- >> Plastics: Enhances the strength, stability, and thermal properties of plastic products.
- >> Rubber: Improves flexibility and tensile strength in rubber manufacturing.
- >> Paper Industry: Acts as a filler to provide smoothness, brightness, and opacity to paper products.
- >> Agriculture: Used to neutralize acidic soils and provide calcium for plant growth.
- >> Food and Pharmaceuticals: Acts as a calcium supplement and acidity regulator in food and medical products.
- >> Cosmetics: Calcium carbonate powder enhances texture, absorbs oil, and serves as a mild abrasive in cosmetics like powders and toothpaste.

Safety Data

Calcium Carbonate Powder is a non-toxic and non-flammable material, generally considered safe for use in industrial and construction applications. However, excessive inhalation of dust may cause respiratory irritation. It is recommended to use appropriate protective equipment, such as dust masks, gloves, and safety goggles, during handling. In case of eye contact, rinse thoroughly with water. Store the material in a dry, well-ventilated area, and handle with care to minimize dust generation.

Warranty

DATSON Building Materials warrants that the product supplied meets the specified quality and performance standards as outlined in this datasheet. We guarantee that the material is free from defects in manufacturing and workmanship. For warranty claims, please retain proof of purchase and contact our customer service team.

