



Calcium Carbonate M5

CAS Number: 471-34-1

Chemical Formula: CaCO_3

DESCRIPTION

Calcium Carbonate M5 is a very fine mineral filler produced from high-purity natural calcium carbonate. The product is processed to achieve excellent dispersion, high whiteness, and controlled particle size distribution, making it suitable for use in plastics, coatings, adhesives, rubber compounds, and other industrial applications requiring consistent filler performance.

KEY FEATURES

- High calcium carbonate purity
- Fine particle size for improved dispersion
- High brightness and whiteness
- Low impurity levels
- Consistent mineral composition
- Suitable for polymer and coating systems

APPLICATIONS

- Polyolefin compounds and masterbatches
- PVC pipes, sheets, profiles and injection mouldings
- Rubber compounds and elastomer systems
- Adhesives and sealant formulations
- Paper pulp and coating systems
- Paints and industrial coating

TYPICAL SPECIFICATIONS

Parameter	Specification
Calcium Carbonate (CaCO_3)	$\geq 98.5 \%$
Magnesium Oxide (MgO)	$\leq 0.02 \%$
Silicon Dioxide (SiO_2)	$\leq 0.03 \%$
Ferric Oxide (Fe_2O_3)	$\leq 0.02 \%$
Aluminium Oxide (Al_2O_3)	$\leq 0.02 \%$
Average Particle Size (D50)	$5.0 \pm 2 \mu\text{m}$
Topcut (D97)	$20 \pm 2 \mu\text{m}$
Oil Absorption	16 g/100 g
Whiteness	$\geq 98 \%$
Brightness	$\geq 95 \%$
Moisture	$\leq 0.2 \%$
Specific Gravity	2.7 g/cm ³
Hardness	Mohs 3



**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

Supplied in 25 kg PP/PE bags, kraft paper bags, or jumbo bulk bags, depending on customer requirements.

STORAGE & HANDLING

Store in a cool, dry, and well-ventilated area. Protect from moisture and contamination. Keep packaging tightly sealed when not in use. Handle using standard mineral-handling practices and appropriate dust control measures.

SAFETY

Avoid inhalation of dust and prolonged contact with eyes or skin. Use suitable personal protective equipment. Refer to the Safety Data Sheet (SDS) for detailed safety, handling, and regulatory information.