

UNIVERSAL MINERALS EXPORT COMPANY

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TECHNICAL DATA SHEET

Calcite Powder

Product Code: UME-CAL-01

Revision: 01

Date: June 2026

HS Code: 2836.50

1. PRODUCT DESCRIPTION

Calcite Powder is a naturally occurring calcium carbonate (CaCO_3) mineral, micronized from high-grade calcite ore sourced from India. It exhibits high whiteness, low moisture, and excellent chemical stability — making it one of the most widely used industrial fillers globally. Universal Minerals Export Company supplies calcite powder in uncoated (natural) and stearic acid coated grades across multiple mesh sizes to meet diverse industrial requirements.

2. CHEMICAL COMPOSITION

Parameter	Formula	Typical Value	Test Method
Calcium Carbonate	CaCO_3	$\geq 98.0\%$	EDTA Titration
Calcium Oxide	CaO	$\geq 55.0\%$	XRF
Magnesium Carbonate	MgCO_3	$\leq 1.5\%$	XRF
Silicon Dioxide	SiO_2	$\leq 0.5\%$	XRF
Iron Oxide	Fe_2O_3	$\leq 0.05\%$	XRF
Aluminium Oxide	Al_2O_3	$\leq 0.1\%$	XRF
Loss on Ignition	LOI @ 1000°C	43 – 44 %	Gravimetric

3. PHYSICAL PROPERTIES

Appearance	White to Off-white Fine Powder	pH (5% slurry)	8.5 – 9.5
Odour	Odourless	Moisture Content	$\leq 0.2\%$
Crystal System	Trigonal / Rhombohedral	Oil Absorption	18 – 22 g/100g
Specific Gravity	2.71 g/cm ³	Refractive Index	1.486 – 1.658
Bulk Density	0.85 – 1.0 g/cm ³ (loose)	Melting Point	1,339°C (decomposes)
Mohs Hardness	3.0	Solubility	Practically insoluble

4. AVAILABLE GRADES & PARTICLE SIZE

Grade	D50 (µm)	D97 (µm)	Coating	Primary Application
100 Mesh	75 – 90	150	Uncoated	Construction, Putty, Mortar
200 Mesh	40 – 55	75	Uncoated	Paints, Adhesives, Tile Grout
325 Mesh	20 – 30	45	Uncoated / Coated	Paints, Rubber Compounding

400 Mesh	12 – 18	30	Uncoated / Coated	PVC Pipes, Profiles, Films
500 Mesh	8 – 12	20	Coated	Engineering Plastics, Cables
600 Mesh	5 – 8	15	Coated	High-end Coatings, Paper

5. INDUSTRIAL APPLICATIONS

Paints & Coatings: Extender and filler to improve opacity, gloss, and film build. Recommended grades: 200–400 mesh.

Plastics & PVC: Improves rigidity, impact resistance, and surface finish in PVC pipes, profiles, and masterbatch. Coated grades preferred.

Rubber Compounding: Active filler improving tensile strength and hardness. Coated 325–500 mesh grades recommended.

Adhesives & Sealants: Provides bulk and rheology control in construction adhesives and tile grouts. Uncoated 200–325 mesh.

Paper & Board: Coating pigment and filler improving brightness and opacity. Fine 400–600 mesh grades required.

Construction Materials: Filler in wall putty, plaster, cement additives, and dry mix mortars. Coarser 100–200 mesh grades.

Agricultural Lime: Soil pH neutralizer. Coarse agricultural grade (60–100 mesh) applied to acidic soils.

Carpet & Textile: Carpet backing compound filler. 200–325 mesh uncoated grades for cost-effective loading.

6. PACKAGING & STORAGE

Standard Pack	25 kg & 50 kg double-layered HDPE woven bags with PE inner liner
Bulk Pack	500 kg, 1,000 kg & 1,500 kg PP jumbo bags (FIBC)
Container Load	~500 x 25 kg bags per 20' FCL (~12.5 MT); ~560 x 50 kg bags per 20' FCL (~25 MT)
Pallet	48 bags/pallet (25 kg), stretch-wrapped for export
Private Label	Custom printed bags available for distributors (MOQ: 1 FCL)
Storage	Cool, dry place, away from moisture. Shelf life: 24 months when stored properly.
Transport	Non-hazardous. No special transport restrictions. Standard bulk cargo.

7. SAFETY & REGULATORY

GHS Classification	Not classified as hazardous under GHS / OSHA HCS
REACH Status	Compliant — not on SVHC Candidate List
RoHS	Compliant
Dust Exposure	Use FFP1/FFP2 dust mask in dusty environments — nuisance dust only
Eye / Skin Contact	Flush eyes with clean water; wash skin with soap and water
Disposal	Inert mineral waste — dispose per local regulations. Not classified as hazardous waste.

8. EXPORT & ORDERING INFORMATION

HS Code	2836.50 (Calcium Carbonate)
Country of Origin	India

Port of Loading	Mundra Port / Kandla Port, Gujarat, India
Lead Time	7–15 working days from order confirmation to container loading
MOQ	1 FCL (~12.5 MT in 25 kg bags or ~25 MT in 50 kg bags)
Payment Terms	30% advance, 70% against BL copy (T/T); LC at sight acceptable
Price Basis	FOB Mundra / CIF destination port (as negotiated)
Documents	Commercial Invoice, Packing List, Bill of Lading, COA, Certificate of Origin

Universal Minerals Export Company

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This TDS is for informational purposes only. Typical values may vary by batch. Universal Minerals Export Company reserves the right to modify specifications without prior notice. Customers should independently verify suitability for specific applications.