

2026 TECHNICAL EDITION

CALCIUM CARBONATE PRODUCT CATALOGUE

Coated & Uncoated Ground Calcium Carbonate
100 to 2500 Mesh

Technical selection. Controlled specifications.
Documents for industrial qualification.

Choose the right calcium carbonate family

The catalogue is designed as a technical selection guide. Final approval should use the latest TDS and customer testing.

5 grades

Coated GCC

Stearic-acid surface-treated GCC developed for non-polar polymer systems and applications where dispersion and moisture resistance matter.

- 400 / 600 / 800 / 1250 / 2500 Mesh
- D50 from 10 um to 1.5 um
- Typical fit: PVC, masterbatch, cable, extrusion

8 grades

Uncoated GCC

Natural untreated GCC covering coarse mineral filler through ultrafine grades for paints, paper, dry-mix, rubber and general industrial formulations.

- 100 / 200 / 325 / 400 / 600 / 800 / 1250 / 2500 Mesh
- D50 from 75 um to 1.5 um
- Natural hydrophilic mineral surface

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PRODUCT GRADES

13

TDS FILES

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MASTER SDS

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COA TEMPLATES

Common technical baseline

CaCO3	>= 98.5 wt.%	Moisture	<= 0.20%
Specific gravity	2.70 +/- 0.05 g/cm3	PSD method	ISO 13320:2020

Note: mesh is a commercial fineness designation. D50, D97 and applicable sieve controls are the primary technical selection parameters.

Coated GCC portfolio

Surface-treated grades for polymer processing, filler masterbatch, PVC and applications requiring improved compatibility with non-polar systems.

SURFACE TREATED

Stearic acid treated

GRADE	CODE	D50 (um)	D97 (um)	COATING	OIL ABS. (g/100g)
400 Mesh	AP-CC-C400	10 +/- 2	37 +/- 3	0.8-1.2%	15-20
600 Mesh	AP-CC-C600	6.5 +/- 1.5	30 +/- 2	0.9-1.2%	13-18
800 Mesh	AP-CC-C800	5.5 +/- 1.0	<= 18	0.9-1.2%	13-18
1250 Mesh	AP-CC-C1250	3.0 +/- 0.5	<= 10	1.0-1.2%	10-15
2500 Mesh	AP-CC-C2500	1.5 +/- 0.3	5 +/- 1	1.20-1.30%	<= 18

Typical application fit

- 400

Rigid PVC, PE/PP masterbatch, WPC, rubber, cable
- 600

PVC pipe/profiles, masterbatch, wire & cable, elastomers
- 800

PVC, PE/PP compounds, cable, artificial leather, WPC
- 1250

PVC, raffia, extrusion, cable, high-finish compounds
- 2500

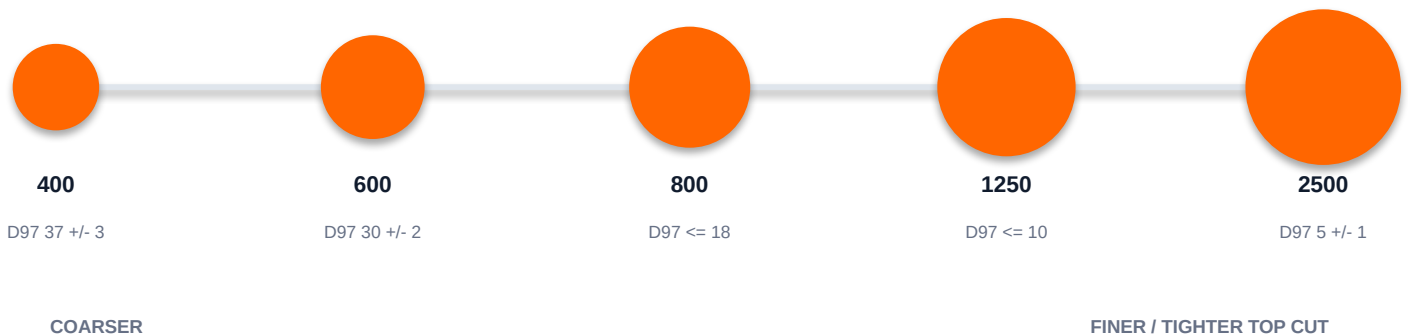
White masterbatch, thin film, sheet, premium extrusion

All coated grades: CaCO3 >= 98.5 wt.%, moisture <= 0.20%, specific gravity 2.70 +/- 0.05 g/cm3. See the individual TDS for full limits and test methods.

Coated grade selection by fineness

Use D50/D97 as the primary guide. Finer grades generally support smoother finish and tighter coarse-tail control, while coarser grades can favor robust filler loading and economy.

Particle-size progression



400-600 Mesh

Robust compounding

Strong starting point for PVC pipe/profiles, general filler masterbatch, WPC and rubber compounds.

Best when cost-performance and filler loading are priorities.

800 Mesh

Balanced fine grade

Finer finish and tighter top cut for PVC, PE/PP compounds, wire/cable and artificial leather.

Useful transition between conventional and ultrafine coated GCC.

1250-2500 Mesh

Ultrafine grades

Designed for high-finish polymer systems, fine extrusion, cable compounds, thin film/sheet and premium masterbatch.

Use when surface quality and coarse-tail control are more demanding.

Selection principle: the finest grade is not automatically the best grade. Final choice depends on formulation, filler loading, processing equipment, surface finish and cost target.

Uncoated GCC: coarse to medium grades

Natural untreated mineral surface for construction compounds, rubber, putty, coatings and general mineral-filler systems.

NATURAL SURFACE

100 to 400 Mesh

GRADE	CODE	D50 (um)	D97 (um)	WHITENESS	OIL ABS. (g/100g)
100 Mesh	AP-CC-U100	75 +/- 15	<= 150	>= 96.0%	12-18
200 Mesh	AP-CC-U200	15 +/- 5	<= 65	>= 96.0%	12-18
325 Mesh	AP-CC-U325	12 +/- 3	<= 45	>= 96.5%	13-18
400 Mesh	AP-CC-U400	8 +/- 2	37 +/- 3	>= 96.5%	14-20

Typical application fit

- 100

Mortars, plasters, wall putty, rubber, asphaltic fillers
- 200

Dry-mix, putty, rubber, adhesives, sealants
- 325

Putty, paints, dry-mix, rubber, general fillers
- 400

Paints, primers, putties, rubber, adhesives, dry-mix

Selection cue

100-200 Mesh emphasize coarse mineral filler economics. 325-400 Mesh provide lower oversize content and a smoother profile for putties, coatings, rubber and fine dry-mix systems.

Uncoated GCC: fine to ultrafine grades

Fine untreated grades for smooth coatings, paper-related systems, sealants, specialty mineral fillers and high-finish formulations.

FINE / ULTRAFINE

600 to 2500 Mesh

GRADE	CODE	D50 (um)	D97 (um)	WHITENESS	OIL ABS. (g/100g)
600 Mesh	AP-CC-U600	5.0 +/- 1.0	25 +/- 3	>= 97.0%	16-22
800 Mesh	AP-CC-U800	4.0 +/- 0.5	15 +/- 2	>= 97.0%	17-23
1250 Mesh	AP-CC-U1250	2.5 +/- 0.5	10 +/- 2	>= 97.5%	20-26
2500 Mesh	AP-CC-U2500	1.5 +/- 0.3	5 +/- 1	>= 98.0%	22-28

Typical application fit

- 600

Paints, putties, rubber, paper-related fillers, dry-mix
- 800

Paints, coatings, rubber, adhesives, paper, fine dry-mix
- 1250

Fine paints, paper, sealants, specialty compounds
- 2500

High-finish coatings, paper, inks, specialty formulations

Selection cue

As particle size decreases, surface area increases. This can affect dispersion, binder demand and oil absorption, so formulation testing becomes increasingly important for 1250-2500 Mesh grades.

Starting points by industrial application

This matrix is a selection aid, not a substitute for formulation trials. Use it to identify the first grades to evaluate.

APPLICATION	FAMILY	SUGGESTED STARTING GRADES
Rigid PVC pipe & profiles	Coated	400 / 600 / 800 / 1250
PE / PP filler masterbatch	Coated	400 / 600 / 800 / 1250 / 2500
Wire & cable compounds	Coated	600 / 800 / 1250 / 2500
Thin film / premium extrusion	Coated	2500
Paints / primers / putties	Uncoated	325 / 400 / 600 / 800 / 1250 / 2500
Paper-related filler systems	Uncoated	600 / 800 / 1250 / 2500
Rubber / flooring / elastomers	Both	200 / 325 / 400 / 600 / 800 + coated options
Dry-mix / mortar / tile adhesive	Uncoated	100 / 200 / 325 / 400 / 600
Adhesives & sealants	Both	325-2500 depending formulation

Qualification sequence

1. Select family 2. Review TDS 3. Test sample 4. Approve batch COA

A document system built for qualification and batch release

Arosha documentation separates product specifications, safety information and batch-specific test results.

TDS

Technical Data Sheet

Grade-specific specifications, PSD, test methods, packaging and recommended applications.

SDS

Safety Data Sheet

16-section safety document covering identification, handling, exposure controls, transport and regulatory information.

COA

Certificate of Analysis

Batch-specific results compared with the approved specification. Issued only for an identified lot or order.

Referenced technical methods

ISO 3262-5:2023	Natural crystalline calcium carbonate - specifications and methods of test
ISO 13320:2020	Particle-size analysis by laser diffraction
ISO 787-2:2021	Matter volatile at 105 C
ISO 787-5:2026	Oil absorption value
ISO 787-10:1993	Density / specific gravity
ISO 787-11:1981	Tamped volume and apparent density

Document control principle

The latest approved TDS controls product specification. Batch COA values document actual tested results for the identified lot. SDS is maintained by product family where composition and hazard profile are equivalent.

Packaging, storage and technical support

Standard export packaging plus document support for industrial buyers and supplier-qualification teams.

25 kg

Laminated PP/PE Bags

Standard bag format for manageable handling and warehouse operations.

1,000 kg

FIBC / Jumbo Bags

Bulk handling option for industrial consumption and export logistics.

Alternative export packing can be discussed by agreement.

Storage & handling

STORE SEALED

Keep product dry, sealed and under cover. Protect from contamination and weather exposure.

CONTROL DUST

Minimize airborne dust and use local exhaust ventilation where appropriate.

USE CURRENT SDS

Apply respiratory, eye and workplace controls according to the current Safety Data Sheet.

Need a grade match?

Send your current TDS or purchasing specification. The technical team can review key properties such as D50, D97, purity, whiteness, moisture, oil absorption, surface treatment and packaging requirements.

[TDS](#)[SDS](#)[COA](#)

TECHNICAL & COMMERCIAL
SUPPORT

Let's qualify the right grade for your process.

Request the latest TDS, the applicable SDS, a grade comparison or a batch-specific COA for an identified order.

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information



WhatsApp

Technical
document
requests

CATALOGUE NOTICE

Numerical values in this catalogue summarize current product specification sheets and are intended for product selection. The latest approved TDS supersedes this catalogue for technical acceptance, and batch conformity is confirmed through the applicable COA.