

MANUFACTURER & EXPORTER OF GROUND CALCIUM CARBONATE

CALCIUM CARBONATE

COATED & UNCOATED GRADES

High-whiteness natural calcium carbonate — ground from pure limestone and engineered for plastics, PVC, paint, paper, adhesives, rubber, construction and agriculture.

کارخانه تولید پودر کربنات کلسیم آروشا

36	30+	4	20,000
YEARS OF EXPERIENCE	EXPORT COUNTRIES	PRODUCTION PLANTS	MTS PER MONTH

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Grade families

CM 15 · 25 · 35 — coated

UM 2 → 35 — uncoated

Both families come from the same high-whiteness limestone, so moving between grades keeps your process stable.

How to read this catalog

Sections 03 – 09 present the technical data of every grade. Sections 10 – 13 describe our production system, packaging, markets and sustainability commitments. All figures are typical values from regular production.

About Arosha Powder

01 – INTRODUCTION

Established in **1990**, Arosha has grown into a leading group in Iran in manufacturing and exporting calcium carbonate — the raw material for industries such as paper, plastic, paint, rubber and ceramic.

With a comprehensive system of **four high-capacity factories** using advanced technologies, professional and experienced people, we are proud of bringing our customers consistent quality products at a reasonable cost.

Currently our products are being exported to **over 30 countries** around the world, building a strong reputation in all markets and firm confidence in customers worldwide.

Customer satisfaction is our target; human resources are our core value. Our goal is to develop a global brand in a sustainable way — bringing benefits to our customers in particular, and to society in general.

1990

ESTABLISHED

20,000+MTS / MONTH
OUTPUT**30+**

EXPORT MARKETS

100%BATCH QUALITY
CONTROL

RAW MATERIAL

High-purity limestone from our own deposits in Qom, Iran — selected for whiteness and chemical consistency.

TECHNOLOGY

Grinding and classifying lines from HOSOKAWA-ALPINE (Germany) and ANIVI (Spain).

SERVICE

Technical support, sample evaluation and reliable delivery scheduling all year round.

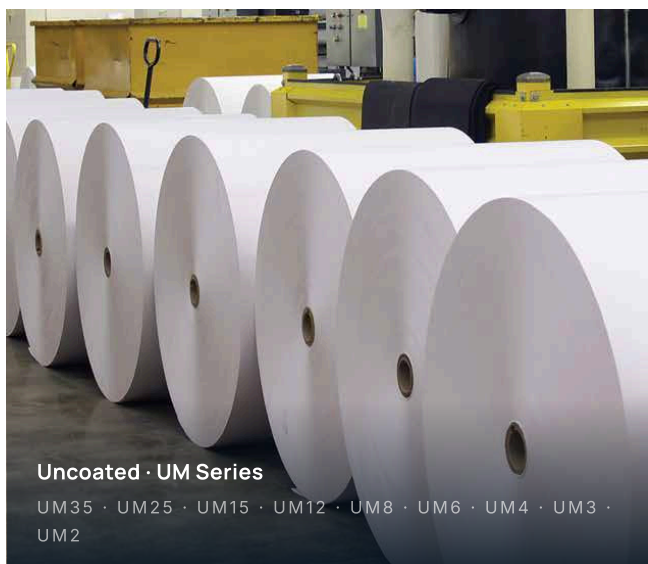
Two families, one standard of quality

02 — OVERVIEW

Natural ground calcium carbonate produced from pure limestone. Available in a fine, controlled particle-size distribution as uncoated grades, and surface-treated with stearic acid as coated grades for higher filler loading in polymers.



Coated · CM Series
CM15 · CM25 · CM35



Uncoated · UM Series

UM35 · UM25 · UM15 · UM12 · UM8 · UM6 · UM4 · UM3 · UM2

Coated calcium carbonate

Surface treated with stearic acid for excellent dispersion and higher loading in plastic compounds, masterbatch, PVC and rubber. Whiteness min. 98 (DIN 6174), D50 from 1.2 µm.

Uncoated calcium carbonate

Pure white filler for paper, paints, inks, adhesives, sealants and ceramics — CaCO_3 min. 99 %, low moisture and a narrow top cut for a uniform surface finish.

98+

WHITENESS (DIN 6174)

1.2–11

D50 RANGE IN µm

99%

 CaCO_3 CONTENT

Standard packaging: 25–30 kg AD bags · jumbo / big bags · palletised and shrink-wrapped loads. Grades, top-cut and coating level can be tailored to your process — please contact our technical team.

Calcium carbonate · Coated

03 — CM15 · CM25 · CM35

Coated calcium carbonate		TYPICAL VALUES · STEARIC ACID TREATED		
PROPERTY		CM15	CM25	CM35
PHYSICAL CHARACTERISTICS				
Whiteness min DIN 6174		98	98	98
Refractive index		1.59	1.59	1.59
Hardness Mohs		3	3	3
Humidity max %		0.2	0.2	0.2
Density g/cm ³		2.7	2.7	2.7
pH ISO 787/9		9	9	9
Oil absorption ml/100 g · ISO 787/5		28	30	35
Bulk density g/ml · ISO 787/11		0.61	0.50	0.45
Moisture %		0.2	0.2	0.2
CHEMICAL ANALYSIS				
CaCO ₃ % min		98	98	98
MgO % max		0.2	0.2	0.2
Fe ₂ O ₃ % max		0.01	0.01	0.01
Al ₂ O ₃ % max		0.04	0.04	0.04
SiO ₂ % max		0.01	0.01	0.01
Na ₂ O % max		0.05	0.05	0.05
CaO % max		56.0	56.0	56.0
L.O.I. % max		43.8	43.8	43.8
Insoluble content in HCl %		0.1	0.1	0.1
FINENESS				
Particles < 2 µm %		50	30	30
Main particle size D50 µm max		2	1.4	1.2
Top cut D98 µm		8	5	4

Stearic acid treatment

Lubricating surface layer that lowers viscosity and allows higher filler loading without loss of impact strength.

Recommended for

Masterbatch, PVC compound, plastic film, cable compounds, rubber and sealants.

Quality control

Every batch is analysed for whiteness, particle size distribution and chemistry before dispatch.

Calcium carbonate · Uncoated

04 — UM35 → UM2

Uncoated calcium carbonate					TYPICAL VALUES · NINE GRADES				
PROPERTY	UM35	UM25	UM15	UM12	UM8	UM6	UM4	UM3	UM2
PHYSICAL CHARACTERISTICS									
Whiteness min DIN 6174	98	98	98	98	98	98	98	98	98
Refractive index	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Hardness Mohs	3	3	3	3	3	3	3	3	3
Humidity max %	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Density g/cm ³	2.52	2.55	2.57	2.60	2.64	2.67	2.70	2.74	2.75
pH ISO 787/9	9	9	9	9	9	9	9	9	9
Oil absorption ml/100 g · ISO 787/5	35	30	28	27	26	24	22	18	16
Bulk density g/ml · ISO 787/11	0.45	0.50	0.61	0.63	0.71	0.73	0.82	0.85	0.90
Moisture %	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
CHEMICAL ANALYSIS									
CaCO ₃ % min	99	99	99	99	99	99	99	99	99
MgO % max	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Fe ₂ O ₃ % max	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Al ₂ O ₃ % max	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
SiO ₂ % max	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Na ₂ O % max	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CaO % max	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
L.O.I. % max	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
Insoluble content in HCl %	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
FINENESS									
Particles < 2 µm %	80	70	50	40	25	20	10	5	3
Main particle size D50 µm max	1.2	1.4	2	2.5	4	4.5	7	9	11
Top cut D98 µm	4	5	8	10	15	20	38	50	75

FINER GRADES

Higher opacity, gloss and stiffness — for thin films, paints, inks and paper coating.

COARSER GRADES

Higher loading and lower cost — for profiles, pipes, compounds and mortars.

COATED GRADES

Stearic-acid treatment improves dispersion and allows a higher filler content in polymers.

All figures are typical values obtained from regular production and do not constitute a specification limit. Custom particle-size distributions and coating levels are available on request.

Plastics & Masterbatch

05 – POLYMER FILLER

Calcium carbonate powder as filler reduces costs, enhances processes and improves mechanical properties in many plastic applications.

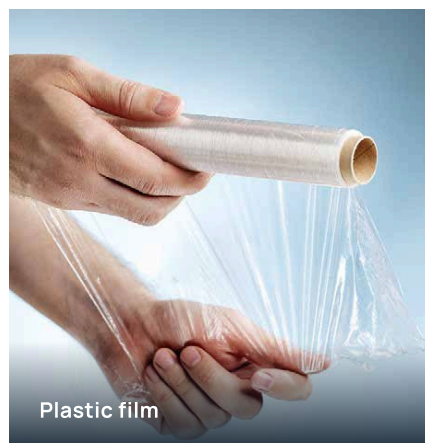


Masterbatch & compounds

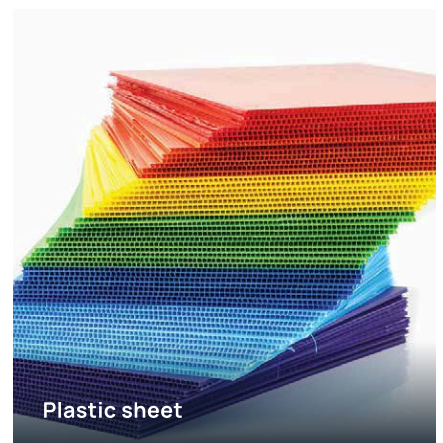
CONSISTENT WHITENESS · HIGH LOADING CAPABILITY



Plastic moulding



Plastic film



Plastic sheet

Cost efficiency

Replaces part of the polymer volume, lowering formulation cost per kilogram of finished compound.

Processing

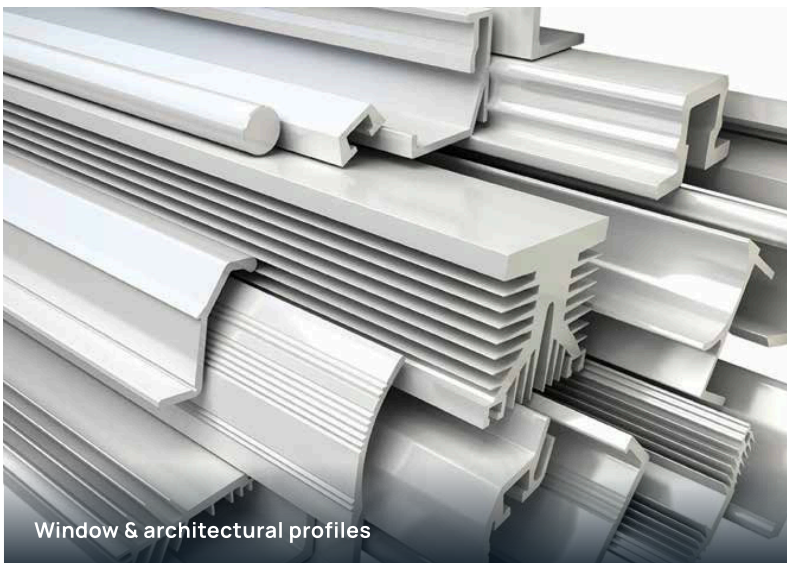
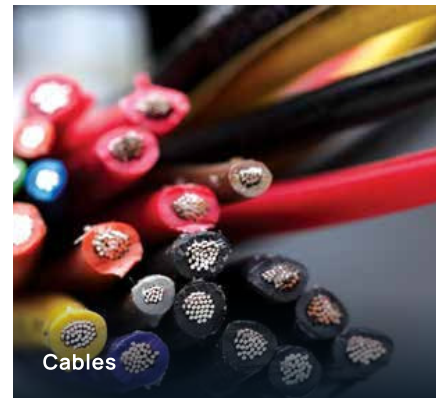
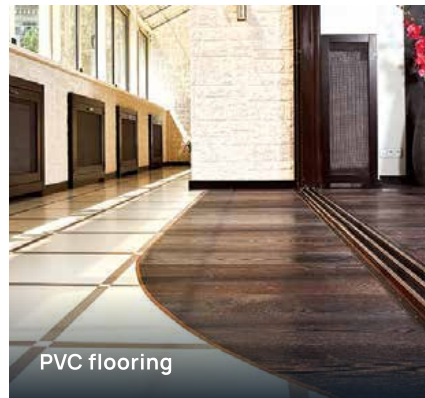
Good dispersion with stearic-acid coated grades; stable output in extrusion, blown film and injection moulding.

Properties

Improves stiffness and dimensional stability while maintaining a uniform, defect-free surface.

PVC Applications

06 — COMPOUND · PIPE · CABLE



PVC profile: ensures excellent surface finish, thermal insulation and weather resistance for window profiles and architectural trim — with stable processing in rigid and flexible formulations.

Coatings, Adhesives, Inks & Paper

07 – SURFACE & OPACITY

For coating & adhesive

Calcium carbonate is considered a major filler affecting opacity, improving corrosion resistance and product viscosity in the coating industry. It provides good thixotropy, anti-collapsibility and stability, and gives excellent thermo-durability for adhesives and sealants, strengthening pigmentation for inks.



For paper

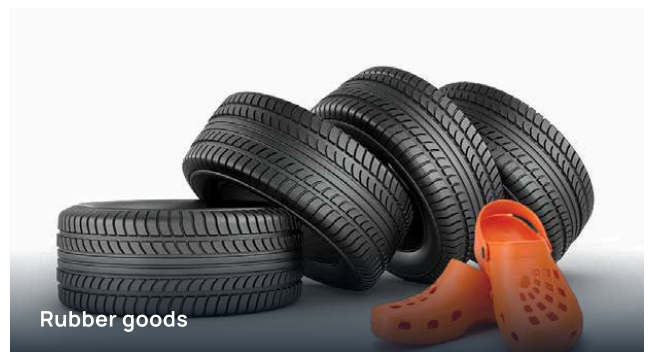
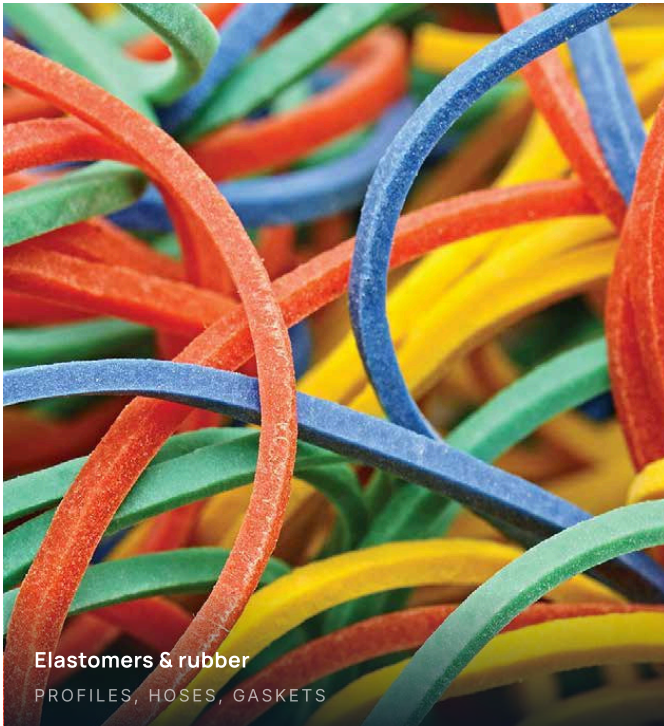
As filler, calcium carbonate creates a more uniform surface and improves printability, brightness, opacity and gloss. As a coating agent it improves optical and surface properties and provides the correct coating structure for interaction with ink during printing.



Rubber, Elastomers & Environment

08 – COST REDUCTION

Calcium carbonate brings an effective solution in cost reduction when used as a filler in rubber, elastomers and thermoset compounds.



Filler performance

Semi-reinforcing filler that reduces compound cost while keeping hardness, tear strength and ageing behaviour under control.

Environmental applications

Natural calcium carbonate is used more and more for water treatment, flue gas desulphurisation and acid neutralisation.

Construction, Care & Agriculture

09 — GLASS · CERAMIC · SOIL

For construction

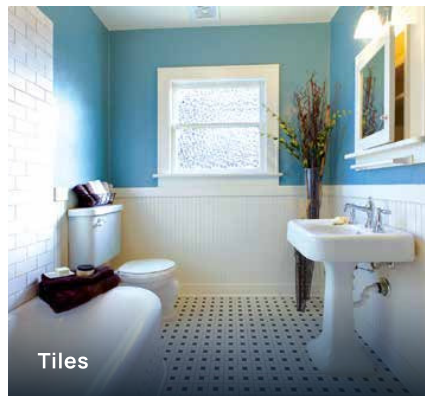
Calcium carbonate increases expansion and ensures mechanical strength and porosity for product creation in ceramics. It modifies viscosity and increases the durability of glass.



Glass



Ceramic



Tiles



Personal care



Agriculture

Commonly used as a white colorant and a gentle abrasive in toothpaste and other personal-care products.

An important mineral fertiliser for agriculture and forestry, with growing demand year by year.

ALSO USED IN

Dry-mix mortars

Joint fillers

Putties

Sealants

Plasters

Flue-gas treatment

Building & decoration: also used in dry-mix mortars, joint fillers, putties and sealants where whiteness and consistent grading are essential.

Factory System & Quality Control



A system of four big-capacity factories equipped with the most advanced technologies from HOSOKAWA-ALPINE (Germany) and ANIVI (Spain) gives us unique advantages in supplying customers with a wide range of high, consistent quality products. A total output of up to 20,000 MTs per month and more allows us to assure timely delivery throughout the years.

4

PRODUCTION PLANTS

20,000+

MTS / MONTH

2

TECHNOLOGY PARTNERS
— GERMANY & SPAIN

100%

BATCH CONTROL

LABORATORY EQUIPMENT

Color Analyzer

HunterLab · USA

Laser Diffraction

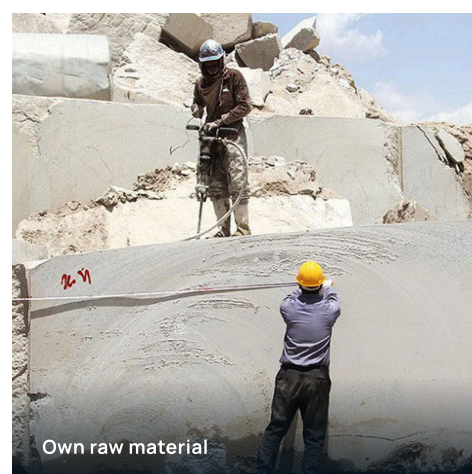
MALVERN · England

Chemical assay

Wet chemistry & titration

Moisture

Oven & balance method



Modern laboratory equipment — including a HunterLab colour analyser (USA) and MALVERN particle laser diffraction (England) — is used to control the quality of every single batch before it leaves the plant.

Packaging & Logistics



Loaded, sealed and documented

CONTAINER · BULK TRUCK · BREAK-BULK

Bags

25–30 kg AD bags on pallets, shrink-wrapped — ideal for plants with manual or semi-automatic feeding systems.

Jumbo / big bags

500–1,300 kg big bags with lifting loops, suited to bulk handling, silo filling and bulk-blending lines.

Bulk

Tanker and bulk-truck loading for high-volume consumers, with dedicated silos for each grade.

Shipping documents

Commercial invoice · packing list · certificate of analysis · certificate of origin · bill of lading. FOB and CFR terms available on request.

Delivery

Scheduled monthly shipments, FCL / LCL containers and break-bulk; stock planning together with our customers to keep their silos full.



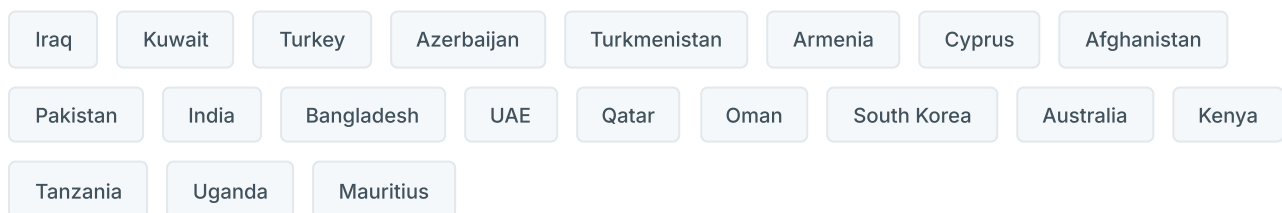
Global Markets & Exhibitions

12 – 30+ COUNTRIES

With 36 years of experience in exporting calcium carbonate, we are proud to be present in many countries around the world — and to meet our partners at international trade exhibitions year after year.



MARKETS INCLUDE



MIDDLE EAST

Iraq · Kuwait · UAE · Qatar · Oman · Turkey · Cyprus

CENTRAL & SOUTH ASIA

Turkmenistan · Azerbaijan · Armenia · Afghanistan · Pakistan · India · Bangladesh

AFRICA & ASIA-PACIFIC

Kenya · Tanzania · Uganda · Mauritius · South Korea · Australia

Our goal is to expand business to more countries and regions in the world, with a commitment to quality, consistent products and professional services.

Sustainable Development

13 – PEOPLE & PLANET



Human resources

People are the most important resource of every company. We commit to a safe and stable workplace, annual health care and all rights granted by law, and we guarantee that our colleagues' contribution is recognised, properly rewarded and supported by suitable training programmes.



Local economic development

Wherever we operate, we aim to connect the expansion of our production with the development of the local economy: investing in facilities, contributing to local infrastructure, and creating jobs and vocational training for the local workforce.



Environment & energy

- We only cooperate with partners who are licensed and committed to exploiting natural resources efficiently and sustainably.
- We use energy efficiently: improving management quality, increasing clean and renewable energy, and using energy-saving lighting equipment.



Community development

We understand our responsibility towards the community and regularly organise activities to help orphans, the poor and the sick who are suffering from incurable or dangerous diseases; support for people affected by natural disasters and floods; and participation in blood-donation programmes.

A

We measure success not only in tonnes shipped, but in **people trained, communities supported and resources protected.**

LICENSED SOURCING

Long-term quarrying partners audited for legal and environmental compliance.

ENERGY

Cleaner and renewable energy share increased every year across the group.

COMMUNITY

Long-running social and vocational programmes in the regions where we work.

Contact Us

Send us your application, target grade and monthly volume — our technical team will recommend the right product and send a sample for your own trials.

OWN RAW MATERIAL

High-whiteness limestone under our own control in Qom.

CONSISTENT QUALITY

Every single batch analysed before dispatch.

CAPACITY

20,000+ MTs per month across four plants.

SUPPORT

Technical advice and free trial samples.

HEAD OFFICE

Qom · Iran

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TEL +98 25 3820 8131

EMAIL info@aroshapowder.co

WEB aroshapowder.co

FACTORY

Dilijan industrial town

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TEL +98 25 9101 5645

CAPACITY 4 plants · 20,000+ MTs per month

INSTANT CONTACT

WhatsApp · Telegram

MOBILE +98 912 751 6759

HOURS Saturday – Thursday, 08:00 – 17:00 (GMT +3:30)

COMMERCIAL

Export department

ENQUIRIES info@aroshapowder.co

SAMPLES Free trial samples available for qualified projects

TERMS FOB · CFR · container, bulk truck or break-bulk



Request a sample — tell us your **application, target grade and monthly volume** and we will answer within two working days.