



TARAZ

Micronized Powder
Industry Company



Micronized Powder Industry Company • Manufacture powder micronized mineral and industrial

Calcium Carbonate Powder

Natural, very fine, easy to disperse Calcium Carbonate powder obtained from very high purity white marble.



Calcium Carbonate Powder

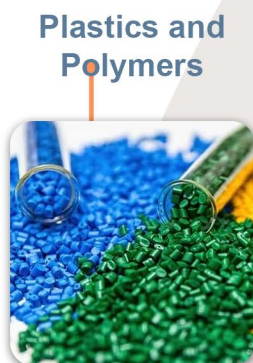
Calcium Carbonate (CaCO_3) is a versatile and widely used mineral known for its high purity, brightness, and excellent physical and chemical properties. It is a naturally occurring substance derived from limestone and marble, processed into a fine powder for industrial applications.

Key Applications

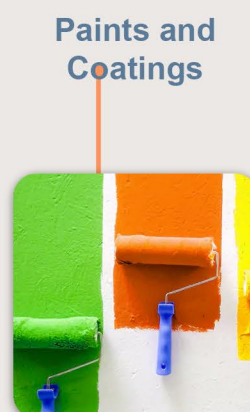
- **Construction Industry:** Used in cement, concrete, and artificial stone production.
- **Plastics and Polymers:** Acts as a filler to enhance durability and reduce production costs.
- **Paper Manufacturing:** Improves brightness, opacity, and printability of paper.
- **Paints and Coatings:** Provides smoothness, consistency, and resistance to wear.
- **Pharmaceuticals & Food:** Serves as a calcium supplement and pH regulator in medicine and food products.



Construction Industry



Paper Manufacturing



Pharmaceuticals & Food

Unique Features

- **High Purity:** Ensures superior performance across industries.
- **Excellent Particle Distribution:** Offers uniformity and efficiency in end products.
- **Eco-Friendly:** Derived from natural resources and recyclable in various applications.
- **Cost-Effective:** Reduces raw material expenses while maintaining quality.

Our Calcium Carbonate Powder meets the highest industry standards, making it an essential component for diverse sectors worldwide.

Calcium Carbonate Powder



Applications of Calcium Carbonate Powder

- Construction: Used in cement, concrete, and artificial stone for strength and durability.
- Plastics and Polymers: Acts as a filler to improve strength and reduce production costs.
- Paper Industry: Enhances brightness, smoothness, and print quality.
- Paints and Coatings: Improves consistency, gloss, and wear resistance.
- Pharmaceuticals & Food: Used as a calcium supplement and pH regulator.
- Rubber and Adhesives: Enhances flexibility, durability, and stability.
- Environmental Applications: Assists in water treatment and air purification.
- Animal Feed and Poultry: Provides essential calcium for bone development and overall health.
- Glass Manufacturing: Improves durability and clarity in glass production.
- Pipes and Fittings: Enhances rigidity and impact resistance in PVC pipes.
- Rubber and Sealants: Improves elasticity and mechanical properties.
- Cosmetics: Acts as a gentle abrasive and filler in personal care products.
- Environmental Solutions: Used in flue gas desulfurization and wastewater treatment.

Advantages of Calcium Carbonate Powder

- High Purity and Brightness: Ensures superior quality and performance across applications.
- Cost-Effective: Reduces production costs while maintaining product efficiency.
- Wide Particle Size Range: Customizable for specific industrial needs.
- Eco-Friendly and Non-Toxic: Safe for use in various industries, including food and pharmaceuticals.
- Thermal Stability: Retains properties under high temperatures.
- Improved Product Quality: Enhances strength, durability, and aesthetics in end products.
- Versatile Applications: Suitable for multiple industries, offering flexibility in usage.

Packaging and Transportation

- Packaging Options:
 - 25 kg bags for ease of handling.
 - 1-ton jumbo bags for bulk requirements.
- Storage Recommendations:
 - Keep in a dry, cool place, away from moisture.
 - Ensure proper sealing to maintain product quality.
- Transportation:
 - Available for delivery by road, sea, or air.
 - Packaging designed to prevent spillage and contamination during transit.

Our flexible packaging and efficient logistics ensure safe and timely delivery to meet your needs.

Calcium Carbonate Powder



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CHEMICAL PROPERTIES		PHYSICAL PROPERTIES	
CaCO ₃	98.50%	Density	2.7 gr/cm ³
MgO	0.86%	Refractive Index	1.5
Al ₂ O ₃	0.06%	Hardness	3 Mohs
Fe ₂ O ₃	0.03%	PARTICLE SIZE DISTRIBUTION	
SiO ₂	0.09%	Mean Particle Size (d50%)	15 μm
Insoluble content in HCL	0.1%	Top-Cut (d98%)	90 μm
		Particles < 2μm	16%
		Residue on 45μm sieve (ISO 878/7)	0.01%
SPECIFIC PRODUCT DATA			
Moisture Ex-Works (ISO 787/2)		0.2%	
PH value (ISO 787/9)		9	
Packed Bulk Density (ISO 787/11)		1.15 gr/ml	
Oil Absorption (ISO 787/5)		8 gr/100gr	
DOP Absorption (ISO 787/5)		15 gr/100gr	
Lightness L* (ASTM E/313)		Elrepho 450X min 98.5%	
Brightness (Ry, DIN 53163)		Elrepho 450X min 96.98%	
Yellowness Index (DIN 6167)		1	

PRODUCT SPECIFICATION

Natural, Ultra-fine Calcium Carbonate manufactured from high purity and whiteness limestone.



APPLICATIONS

Floor coating
Emulsion paints
Emulsion & mineral bound wall finishes

PACKAGING

30 kg ADS bag
Big Bag

PRODUCT SPECIFICATION

Natural, Ultra-fine Calcium Carbonate manufactured from high purity and whiteness limestone.



APPLICATIONS

Construction paints
Industrial paints
Paper

PACKAGING

30 kg ADS bag
Big Bag

CHEMICAL PROPERTIES		PHYSICAL PROPERTIES	
CaCO ₃	98.50%	Density	2.7 gr/cm ³
MgO	0.86%	Refractive Index	1.5
Al ₂ O ₃	0.06%	Hardness	3 Mohs
Fe ₂ O ₃	0.03%	PARTICLE SIZE DISTRIBUTION	
SiO ₂	0.09%	Mean Particle Size (d50%)	5.3 μm
Insoluble content in HCL	0.1%	Top-Cut (d98%)	25 μm
		Particles < 2μm	25%
		Residue on 45μm sieve (ISO 878/7)	0.01%
SPECIFIC PRODUCT DATA			
Moisture Ex-Works (ISO 787/2)		0.2%	
PH value (ISO 787/9)		9	
Packed Bulk Density (ISO 787/11)		1.15 gr/ml	
Oil Absorption (ISO 787/5)		16 gr/100gr	
DOP Absorption (ISO 787/5)		27 gr/100gr	
Lightness L* (ASTM E/313)		Elrepho 450X min 98.5%	
Brightness (Ry, DIN 53163)		Elrepho 450X min 96.98%	
Yellowness Index (DIN 6167)		1	

CHEMICAL PROPERTIES		PHYSICAL PROPERTIES	
CaCO ₃	98.50%	Density	2.7 gr/cm ³
MgO	0.86%	Refractive Index	1.5
Al ₂ O ₃	0.06%	Hardness	3 Mohs
Fe ₂ O ₃	0.03%	PARTICLE SIZE DISTRIBUTION BY SIEVE	
SiO ₂	0.09%	Sieve No (Microns)	710 500 355 250 180 90 Under 90
Insoluble content in HCL	0.1%	% 0-1 0-1 2,5 26,2 29,4 13,5	

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Natural, Ultra-fine Calcium Carbonate manufactured from high purity and whiteness limestone.

APPLICATIONS

Floor coating
Structure chemical products
Emulsion & mineral bound wall finishes

PACKAGING

30 kg ADS bag
Big Bag

Calcium Carbonate Powder



TARAZ ATISAZ IRANIAN

CHEMICAL PROPERTIES		PHYSICAL PROPERTIES	
CaCO ₃	98.50%	Density	2.7 gr/cm ³
MgO	0.86%	Refractive Index	1.5
Al ₂ O ₃	0.06%	Hardness	3 Mohs
Fe ₂ O ₃	0.03%	PARTICLE SIZE DISTRIBUTION	
SiO ₂	0.09%	Mean Particle Size (d50%)	6 μm
Insoluble content in HCL	0.1%	Top-Cut (d98%)	30 μm
		Particles < 2μm	24%
		Residue on 45μm sieve (ISO 878/7)	0.01%
SPECIFIC PRODUCT DATA			
Moisture Ex-Works (ISO 787/2)		0.2%	
PH value (ISO 787/9)		9	
Packed Bulk Density (ISO 787/11)		1.25 gr/ml	
Oil Absorption (ISO 787/5)		16 gr/100gr	
DOP Absorption (ISO 787/5)		26 gr/100gr	
Lightness L* (ASTM E/313)		Elrepho 450X min 98.5%	
Brightness (Ry, DIN 53163)		Elrepho 450X min 96.98%	
Yellowness Index (DIN 6167)		1	

PRODUCT SPECIFICATION

Natural, Ultra-fine Calcium Carbonate manufactured from high purity and whiteness limestone.



APPLICATIONS

Construction paints
Industrial paints

PACKAGING

30 kg ADS bag
Big Bag

PRODUCT SPECIFICATION

Natural, Ultra-fine Calcium Carbonate manufactured from high purity and whiteness limestone. High technology surface coating is applied.



APPLICATIONS

PVC granule
Paper
Cable
Synthetic paints

PACKAGING

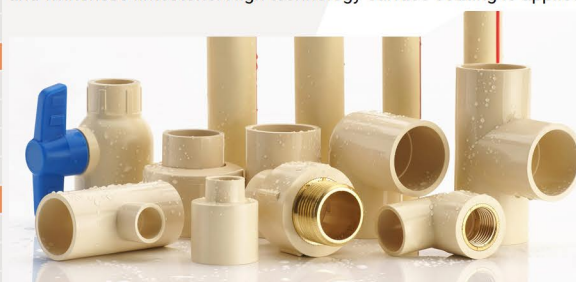
25 kg ADS bag
Big Bag

CHEMICAL PROPERTIES		PHYSICAL PROPERTIES	
CaCO ₃	98.50%	Density	2.7 gr/cm ³
MgO	0.86%	Refractive Index	1.5
Al ₂ O ₃	0.06%	Hardness	3 Mohs
Fe ₂ O ₃	0.03%	PARTICLE SIZE DISTRIBUTION	
SiO ₂	0.09%	Mean Particle Size (d50%)	1.8 μm
Insoluble content in HCL	0.1%	Top-Cut (d98%)	8 μm
		Particles < 2μm	52%
		Residue on 45μm sieve (ISO 878/7)	0.01%
SPECIFIC PRODUCT DATA			
Moisture Ex-Works (ISO 787/2)		0.2%	
PH value (ISO 787/9)		9	
Packed Bulk Density (ISO 787/11)		0.95 gr/ml	
Oil Absorption (ISO 787/5)		18 gr/100gr	
DOP Absorption (ISO 787/5)		20 gr/100gr	
Lightness L* (ASTM E/313)		Elrepho 450X min 98.5%	
Brightness (Ry, DIN 53163)		Elrepho 450X min 96.98%	
Yellowness Index (DIN 6167)		1	

CHEMICAL PROPERTIES		PHYSICAL PROPERTIES	
CaCO ₃	98.50%	Density	2.7 gr/cm ³
MgO	0.86%	Refractive Index	1.5
Al ₂ O ₃	0.06%	Hardness	3 Mohs
Fe ₂ O ₃	0.03%	PARTICLE SIZE DISTRIBUTION	
SiO ₂	0.09%	Mean Particle Size (d50%)	3.9 μm
Insoluble content in HCL	0.1%	Top-Cut (d98%)	21 μm
		Particles < 2μm	30%
		Residue on 45μm sieve (ISO 878/7)	0.01%
SPECIFIC PRODUCT DATA			
Moisture Ex-Works (ISO 787/2)		0.2%	
PH value (ISO 787/9)		9	
Packed Bulk Density (ISO 787/11)		1.2 gr/ml	
Oil Absorption (ISO 787/5)		11 gr/100gr	
DOP Absorption (ISO 787/5)		13 gr/100gr	
Lightness L* (ASTM E/313)		Elrepho 450X min 98.5%	
Brightness (Ry, DIN 53163)		Elrepho 450X min 96.98%	
Yellowness Index (DIN 6167)		1	

PRODUCT SPECIFICATION

Natural, Ultra-fine Calcium Carbonate manufactured from high purity and whiteness limestone. High technology surface coating is applied.



APPLICATIONS

PVC granule
PVC panel
PVC pipe
Synthetic paints

PACKAGING

25 kg ADS bag
Big Bag

Calcium Carbonate Powder

CHEMICAL PROPERTIES		PHYSICAL PROPERTIES	
CaCO ₃	98.50%	Density	2.7 gr/cm ³
MgO	0.86%	Refractive Index	1.5
Al ₂ O ₃	0.06%	Hardness	3 Mohs
Fe ₂ O ₃	0.03%	PARTICLE SIZE DISTRIBUTION	
SiO ₂	0.09%	Mean Particle Size (d50%)	3.1 μm
Insoluble content in HCL	0.1%	Top-Cut (d98%)	16 μm
		Particles < 2μm	35%
		Residue on 45μm sieve (ISO 878/7)	0.01%
SPECIFIC PRODUCT DATA			
Moisture Ex-Works (ISO 787/2)		0.2%	
PH value (ISO 787/9)		9	
Packed Bulk Density (ISO 787/11)		1.2 gr/ml	
Oil Absorption (ISO 787/5)		18 gr/100gr	
DOP Absorption (ISO 787/5)		28 gr/100gr	
Lightness L* (ASTM E/313)		Elrepho 450X min 98.5%	
Brightness (Ry, DIN 53163)		Elrepho 450X min 96.98%	
Yellowness Index (DIN 6167)		1	

PRODUCT SPECIFICATION

Natural, Ultra-fine Calcium Carbonate manufactured from high purity and whiteness limestone.



APPLICATIONS

Paper
Construction paints
PVC pipe

PACKAGING

25 kg ADS bag
Big Bag

PRODUCT SPECIFICATION

Natural, Ultra-fine Calcium Carbonate manufactured from high purity and whiteness limestone. High technology surface coating is applied.



APPLICATIONS

PVC granule
PVC panel
Rigid PVC pipe
Synthetic paints

PACKAGING

25 kg ADS bag
Big Bag

CHEMICAL PROPERTIES		PHYSICAL PROPERTIES	
CaCO ₃	98.50%	Density	2.7 gr/cm ³
MgO	0.86%	Refractive Index	1.5
Al ₂ O ₃	0.06%	Hardness	3 Mohs
Fe ₂ O ₃	0.03%	PARTICLE SIZE DISTRIBUTION	
SiO ₂	0.09%	Mean Particle Size (d50%)	2.6 μm
Insoluble content in HCL	0.1%	Top-Cut (d98%)	12 μm
		Particles < 2μm	42%
		Residue on 45μm sieve (ISO 878/7)	0.01%
SPECIFIC PRODUCT DATA			
Moisture Ex-Works (ISO 787/2)		0.2%	
PH value (ISO 787/9)		9	
Packed Bulk Density (ISO 787/11)		1.05 gr/ml	
Oil Absorption (ISO 787/5)		15 gr/100gr	
DOP Absorption (ISO 787/5)		18 gr/100gr	
Lightness L* (ASTM E/313)		Elrepho 450X min 98.5%	
Brightness (Ry, DIN 53163)		Elrepho 450X min 96.98%	
Yellowness Index (DIN 6167)		1	

CHEMICAL PROPERTIES		PHYSICAL PROPERTIES	
CaCO ₃	98.50%	Density	2.7 gr/cm ³
MgO	0.86%	Refractive Index	1.5
Al ₂ O ₃	0.06%	Hardness	3 Mohs
Fe ₂ O ₃	0.03%	PARTICLE SIZE DISTRIBUTION	
SiO ₂	0.09%	Mean Particle Size (d50%)	2.6 μm
Insoluble content in HCL	0.1%	Top-Cut (d98%)	12 μm
		Particles < 2μm	42%
		Residue on 45μm sieve (ISO 878/7)	0.01%
SPECIFIC PRODUCT DATA			
Moisture Ex-Works (ISO 787/2)		0.2%	
PH value (ISO 787/9)		9	
Packed Bulk Density (ISO 787/11)		1.05 gr/ml	
Oil Absorption (ISO 787/5)		22 gr/100gr	
DOP Absorption (ISO 787/5)		31 gr/100gr	
Lightness L* (ASTM E/313)		Elrepho 450X min 98.5%	
Brightness (Ry, DIN 53163)		Elrepho 450X min 96.98%	
Yellowness Index (DIN 6167)		1	

PRODUCT SPECIFICATION

Natural, Ultra-fine Calcium Carbonate manufactured from high purity and whiteness limestone. High technology surface coating is applied.



APPLICATIONS

Construction paints
Rigid PVC pipe
Paper

PACKAGING

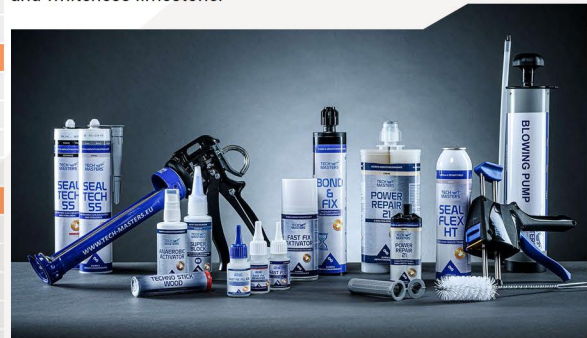
25 kg ADS bag
Big Bag

Calcium Carbonate Powder

CHEMICAL PROPERTIES		PHYSICAL PROPERTIES	
CaCO ₃	98.50%	Density	2.7 gr/cm ³
MgO	0.86%	Refractive Index	1.5
Al ₂ O ₃	0.06%	Hardness	3 Mohs
Fe ₂ O ₃	0.03%	PARTICLE SIZE DISTRIBUTION	
SiO ₂	0.09%	Mean Particle Size (d50%)	7 μm
Insoluble content in HCL	0.1%	Top-Cut (d98%)	42 μm
		Particles < 2μm	23%
		Residue on 45μm sieve (ISO 878/7)	0.01%
SPECIFIC PRODUCT DATA			
Moisture Ex-Works (ISO 787/2)		0.2%	
PH value (ISO 787/9)		9	
Packed Bulk Density (ISO 787/11)		1.3 gr/ml	
Oil Absorption (ISO 787/5)		14 gr/100gr	
DOP Absorption (ISO 787/5)		22 gr/100gr	
Lightness L* (ASTM E/313)		Elrepho 450X min 98.5%	
Brightness (Ry, DIN 53163)		Elrepho 450X min 96.98%	
Yellowness Index (DIN 6167)		1	

PRODUCT SPECIFICATION

Natural, Ultra-fine Calcium Carbonate manufactured from high purity and whiteness limestone.



APPLICATIONS

Emulsion paints
Adhesives

PACKAGING

30 kg ADS bag
Big Bag

PRODUCT SPECIFICATION

Natural, Ultra-fine Calcium Carbonate manufactured from high purity and whiteness limestone.



APPLICATIONS

PVC Panels
Paper
Industrial paints
Cable

PACKAGING

25 kg ADS bag
Big Bag

CHEMICAL PROPERTIES		PHYSICAL PROPERTIES	
CaCO ₃	98.50%	Density	2.7 gr/cm ³
MgO	0.86%	Refractive Index	1.5
Al ₂ O ₃	0.06%	Hardness	3 Mohs
Fe ₂ O ₃	0.03%	PARTICLE SIZE DISTRIBUTION	
SiO ₂	0.09%	Mean Particle Size (d50%)	1.8 μm
Insoluble content in HCL	0.1%	Top-Cut (d98%)	8 μm
		Particles < 2μm	52%
		Residue on 45μm sieve (ISO 878/7)	0.01%
SPECIFIC PRODUCT DATA			
Moisture Ex-Works (ISO 787/2)		0.2%	
PH value (ISO 787/9)		9	
Packed Bulk Density (ISO 787/11)		0.95 gr/ml	
Oil Absorption (ISO 787/5)		26 gr/100gr	
DOP Absorption (ISO 787/5)		34 gr/100gr	
Lightness L* (ASTM E/313)		Elrepho 450X min 98.5%	
Brightness (Ry, DIN 53163)		Elrepho 450X min 96.98%	
Yellowness Index (DIN 6167)		1	

Calcium Carbonate Powder



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Chemical Analysis of the raw material		
Chemical		Percent
Calcium Carbonate		99.26%
Magnesium Oxide		0.69%
Silicon Dioxide or Silica		0.01%
Other		0.04%
Physical Characteristics		Method
Residue On 0.075 mm Seive	10%Max	ASTM E:11
Top Cut (d98.52%)	75 µm	Mastersizer S and ASTM D-1210
Brightness	89%	Spectrophotometer SP64 / ASTM E313 / TAPPI T525
Whiteness	88%	Spectrophotometer SP64 / ASTM E313
L*/a*/b*	95 / -0.21 / 0.45	Spectrophotometer SP64 / ASTM E313
Moisture	0.2%	ASTM D-280
PH	9	ASTM D-1208
Density (M/V)	2.7	ISO 787R/11
Hardness (Mohs)	3	

Chemical Analysis of the raw material		
Chemical		Percent
Calcium Carbonate		99.26%
Magnesium Oxide		0.69%
Silicon Dioxide or Silica		0.01%
Other		0.04%
Physical Characteristics		Method
Top Cut (d97.73%)	15.47 µm	Mastersizer S and ASTM D-1210
D90%	11.22 µm	Mastersizer S and ASTM D-1210
D50%	2.30 µm	Mastersizer S and ASTM D-1210
Particles < 2 µm	47.57%	Mastersizer S and ASTM D-1210
Brightness	90.5%	Spectrophotometer SP64 / ASTM E313 / TAPPI T525
Whiteness	88.5%	Spectrophotometer SP64 / ASTM E313
L*/a*/b*	96.5 / -0.2 / 0.54	Spectrophotometer SP64 / ASTM E313
Dop Absorbion (g/100g caco)	35	ASTM D-281
Moisture	0.2%	ASTM D-280
PH	9	ASTM D-1208
Density (M/V)	2.7	ISO 787R/11
Hardness (Mohs)	3	



Chemical Analysis of the raw material		
Chemical		Percent
Calcium Carbonate		99.26%
Magnesium Oxide		0.69%
Silicon Dioxide or Silica		0.01%
Other		0.04%
Physical Characteristics		Method
Top Cut (d97.73%)	15.47 µm	Mastersizer S and ASTM D-1210
D90%	11.22 µm	Mastersizer S and ASTM D-1210
D50%	2.30 µm	Mastersizer S and ASTM D-1210
Particles < 2 µm	47.57%	Mastersizer S and ASTM D-1210
Brightness	90.5%	Spectrophotometer SP64 / ASTM E313 / TAPPI T525
Whiteness	88.5%	Spectrophotometer SP64 / ASTM E313
L*/a*/b*	96.5 / -0.2 / 0.54	Spectrophotometer SP64 / ASTM E313
Dop Absorbion (g/100g caco)	35	ASTM D-281
Moisture	0.2%	ASTM D-280
PH	9	ASTM D-1208
Density (M/V)	2.7	ISO 787R/11
Hardness (Mohs)	3	




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