

ANS ENTERPRISES

MINERALS



INDEX

1- WHO WE ARE	PG# 2
2- GYPSUM	PG# 3-5
3-DOLOMITE	PG# 6-7
4-China Clay / Kaolin Clay	PG# 8-10
5-Silica Quartz	PG# 10-13
6-SILICA SAND/QUARTZ SAND	PG# 14-15
7-Calcium Carbonate (Limestone)	PG# 16-17
8-TALC/SOAP STONE	PG# 18-19
9-Magnesite(Magnesium Carbonate)	PG# 20-22
10-PUMICE STONE	PG# 23-24
11-CONTACT US	PG# 25

WHO WE ARE

ANS Enterprises: Trusted Exporters of Premium Mineral Ore from Pakistan

ANS Enterprises is recognized as one of Pakistan's most trusted and experienced exporters of mineral ore. With years of industry expertise, we are dedicated to delivering the highest quality mineral ore to clients around the world. Our commitment to excellence and rigorous quality standards ensure that we consistently meet and exceed client expectations.

Our Commitment to Quality

At ANS Enterprises, quality is our top priority. We meticulously source our mineral ores from the best mines in Pakistan, ensuring that each shipment meets stringent international standards. Our state-of-the-art processing facilities and experienced team guarantee that the ore retains its premium quality from extraction to delivery.

Client Satisfaction

Client satisfaction is the cornerstone of our business philosophy. We strive to build long-term, mutually beneficial partnerships with all our clients. By understanding their unique needs and providing personalized service, we ensure that our clients receive exactly what they require. Our transparent and efficient communication processes further enhance client trust and satisfaction.

Competitive Pricing

We pride ourselves on offering competitive pricing without compromising on quality. This makes ANS Enterprises not only a reliable but also a cost-effective choice for clients seeking top-grade mineral ore. Our efficient supply chain and robust logistical network allow us to deliver high-quality products at affordable rates.

Global Reach

ANS Enterprises exports mineral ore to numerous countries around the globe, including:

- **Asia:** Japan, Bangladesh, Oman, Qatar, Kuwait, Sri Lanka, Saudi Arabia
- **Europe:** The United Kingdom and various European states
- **Other Major Regions:** We also cater to clients in other significant global markets

Comprehensive Services

We offer a wide range of services to meet all your mineral ore needs:

Customized Solutions: Tailored products and services to meet specific client requirements.

Timely Delivery: Efficient logistics ensure on-time delivery, every time.

Quality Assurance: Rigorous quality control measures at every stage of production and export.

Our Vision

Our vision is to be the leading exporter of mineral ore from Pakistan, known for our reliability, quality, and exceptional service. We aim to continuously innovate and improve our processes to better serve our clients and contribute to the global mineral market.

GYPSUM

Gypsum, a widely occurring mineral, traces its origins to ancient layers formed under saltwater millions of years ago. As water evaporated, it deposited this mineral in sedimentary rock formations worldwide. Characterized by its crystalline structure, gypsum can sometimes protrude from rock surfaces, a feature that led to its historical nickname 'Spear Stone' in Old English. Composed primarily of calcium sulfate (CaSO_4) and water (H_2O), it is chemically known as calcium sulfate dihydrate ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$). Pakistan is notably endowed with abundant reserves of this natural resource.

ANS Enterprises stands as a leading gypsum supplier in Pakistan, recognized for our commitment to quality and reliability in the industry. As one of the largest gypsum exporters in the region, we take pride in offering premium gypsum products at competitive prices. Our extensive range includes superior Gypsum Lumps and high-grade Gypsum Powder, ensuring that we meet the diverse needs of our esteemed customers efficiently and effectively.

SPECIFICATIONS

S.NO	Parameters	Results
1	Calcium Oxide (CaO)	32.55%
2	Sulphuric Anhydride (SO_3)	46.12%
3	Calcium Sulphate Dihydrate (Gypsum) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$	93.89%--99.18%
4	Free Moisture @ 45°C	0.024%
5	Combined Water @ 230°C	19.21%
6	Acid Insoluble Matter	NIL
7	Color	Colorless to white; may be yellow, tan, blue, pink, brown, reddish brown or gray due to impurities
8	Streak	White
9	Luster	Vitreous to silky, pearly, or waxy
10	Diaphaneity	Transparent to translucent
11	Mohs Hardness	2
12	Specific Gravity	2.31 – 2.33
13	Diagnostic Properties	Transparent and bladed crystals Alabaster Fine-grained, slightly colored
14	Crystal System	Monoclinic
15	Whitness Ry	88.68%
16	Brightness R_{457}	83.48%



**1- GYPSUM PLASTER OF
PARIS GRADE**



2- GYPSUM CEMENT GRADE



3- GYPSUM FARMING GRADE

GYPSUM USES

Gypsum is a versatile mineral with a wide range of uses across various industries. Here are some common applications of gypsum:

1-Construction and Building Materials:

- **Drywall and Plasterboard:** Gypsum is a key component in the production of drywall and plasterboard, used extensively in building interiors for walls and ceilings.
- **Plaster and Joint Compounds:** Gypsum-based plasters and joint compounds are used for finishing walls and ceilings, providing a smooth and durable surface.

2-Agriculture:

- **Soil Conditioner:** Gypsum is used as a soil amendment to improve soil structure and drainage, enhance nutrient uptake by plants, and mitigate soil salinity.
- **Livestock Bedding:** Gypsum is used in animal bedding to absorb moisture and reduce odors, promoting healthier living conditions for livestock.

3-Industrial Applications:

- **Cement Production:** Gypsum is added to cement clinker to control the setting time of cement and improve its strength and durability.
- **Industrial Uses:** Gypsum finds application in industries such as pharmaceuticals, paper production, and textile manufacturing for various purposes including binding agents and filler materials.

4-Environmental Uses:

- **Flue Gas Desulfurization (FGD):** Gypsum is generated as a byproduct in FGD systems used to remove sulfur dioxide from exhaust gases of power plants and industrial facilities.
- **Waste Management:** Gypsum can be recycled and used in landfills to cover waste materials and reduce odors.

5-Art and Decoration:

- **Sculpture and Artwork:** Gypsum has been historically used by artists and sculptors for creating sculptures and artwork due to its workability and ability to hold intricate details.
- **Mold Making:** Gypsum is used in mold making and casting applications due to its ability to reproduce fine details.

6-Medical and Dental Uses:

- **Dental Plaster:** Gypsum is used in dental applications for making dental molds and casts.
- **Orthopedic Casts:** Plaster of Paris, a form of gypsum, is used in orthopedic casts to immobilize and support fractured bones during the healing process.

DOLOMITE

Dolomite ore is a sedimentary rock that typically forms as a result of the chemical alteration of limestone by magnesium-rich groundwater. It is primarily composed of calcium magnesium carbonate ($\text{CaMg}(\text{CO}_3)_2$), making it distinct from pure limestone which is mainly composed of calcium carbonate. Dolomite ore often exhibits a range of colors including white, pinkish, and bluish, depending on variations in its mineral composition and impurities. The chemical formula $\text{CaMg}(\text{CO}_3)_2$ indicates that each unit of dolomite contains one calcium ion (Ca^{2+}) bonded to one magnesium ion (Mg^{2+}) and two carbonate ions (CO_3^{2-}). This composition gives dolomite its characteristic properties, including its slightly different physical and chemical characteristics compared to pure limestone. In addition to its geological significance, dolomite ore is economically important as a source of magnesium and calcium for various industrial applications. It is used as a flux in the production of iron and steel, as an ingredient in the production of ceramics and glass, and as a soil conditioner in agriculture to neutralize acidic soils and provide essential nutrients to plants. The varied colors and formations of dolomite make it a subject of interest not only for its industrial uses but also in decorative and architectural applications. Its durability and aesthetic appeal make it a popular choice for construction materials, decorative stone, and landscaping.

ANS Enterprises is a leading Dolomite supplier and exporter in Pakistan, offering high-quality Dolomite Lumps and Dolomite Powder at competitive prices. Known for reliability and superior products, we cater to diverse industrial needs with a commitment to quality and customer satisfaction.

SPECIFICATIONS:

S.NO	PARAMETERS	RESULTS
1	Molecular Formula	$\text{CaMg}(\text{CO}_3)_2$
2	Magnesium Oxide (MgO)	20.78%
3	Calium Oxide (CaO)	31.54%
4	Iron Oxide (Fe2O3)	0.014%
5	Molecular Weight	184.4008
6	Specific Gravity	2.80-2.99
7	Boiling Point	333.60°C at 760 mm Hg
8	Flash Point	169.8°C
9	Properties	White or Light grayish white powder, clacii carbonate and magnesium carbonate
10	Density	2.85g/cm ³
11	Refractive Index	0.18
12	Mohs Hardness	3.75
13	Molar Mass	184.4g/mol



DOLOMITE USES

1-Construction Industry:

- Dolomite is used as a building material in the construction industry, particularly in the form of dolomitic limestone and dolomitic marble. It is used for creating aggregate and road stone for road construction and as an ingredient in cement and asphalt for building and repair.

2-Steelmaking:

- Dolomite is used as a flux in steelmaking, aiding in the removal of impurities and improving the quality and durability of the steel produced.

3-Agriculture:

- Dolomite is used as a soil conditioner to neutralize acidic soils and to provide magnesium and calcium nutrients essential for plant growth. It improves soil structure and enhances nutrient uptake by plants.

4-Water Treatment:

- Dolomite is used in water treatment as a source of magnesium to control the pH balance of water and as a substrate for the removal of impurities in drinking water and wastewater treatment.

5-Pharmaceutical Industry:

- Dolomite is used in the pharmaceutical industry as a source of magnesium and as an ingredient in antacids and dietary supplements.

6-Ceramics and Glass Production:

- Dolomite is used as a source of magnesium oxide in the production of ceramics, glass, and refractory materials, providing resistance to heat and corrosion.

7-Environmental Applications:

- Dolomite is used in environmental applications such as landfill covers and remediation of contaminated sites due to its ability to reduce the release of harmful substances into the environment.

8-Animal Feed Supplements:

- Dolomite is used as a source of magnesium and calcium in animal feed supplements to promote bone health and overall animal well-being.

CHINA CLAY / KAOLIN CLAY

Kaolin, also known as china clay, is a soft white clay that finds widespread use in the manufacturing of diverse products such as paper, rubber, paint, and ceramics. It is an essential ingredient in the production of fine china and porcelain due to its purity and ability to enhance the quality of finished products.

ANS Enterprises is a leading supplier and exporter of kaolin (china clay) in Pakistan, recognized for our reliability and commitment to quality. As one of the largest exporters in the country, we specialize in providing high-quality Kaolin/China Clay in both lumps and powder forms at competitive prices. Our products cater to various industries, ensuring superior performance and customer satisfaction.

SPECIFICATION

S.NO	Chemical (Mean Value)	Results
1	Silicon Dioxide SiO ₂	48.50%
2	Aluminium Oxide Al ₂ O ₃	36.40%
3	Iron(III) Oxide Fe ₂ O ₃	1.65% (Max)
4	Titanium Dioxide TiO ₂	0.32%
5	Calcium Oxide CaO	0.45%
6	Magnesium Oxide MgO	Tr
7	Potassium Oxide K ₂ O	0.64%
8	Sodium Oxide Na ₂ O	0.13%
9	LOI	13.39%
10	PH	6.5 to 7.0
	Physical (Mean Value)	Results
11	Brightness (MgO)	80%
12	Plasticity	Medium
13	Water of Plasticity	40.50%
14	Attenberg Number	20
15	Acid Solubility	0.10%
16	SA(M2/g)	1400
17	Colour:	Off white Colour After Firing (10000C): White. Packing: Powder 50 Kgs and LUMPS 70 Kgs in HDPE Bags.
	Features	Results
18	Moisture	Moisture less
19	Oil content	Rich in oil content
20	Calorific value	Highly upgraded calorific value



KAOLIN OR CERAMICS CHINA CLAY

Kaolin, also known as ceramics china clay or simply china clay, is a soft white clay essential for producing a wide range of products, including paper, rubber, paint, and ceramics. It is particularly crucial in the manufacturing of fine china and porcelain due to its purity and ability to enhance product quality.



GREY FLINT CLAY

Flint clay, commonly referred to as calcined flint clay, is a key component in the production of high-grade refractory bricks, various ceramics, precision casting sands, ceramic fibers, refractory furnace linings, crucibles, kiln furniture, saggars, and monolithic refractory materials. It is characterized by its high aluminum oxide (Al_2O_3) content, typically ranging from 40% to 50%. This makes calcined flint clay crucial for applications requiring high refractoriness and resistance to heat and chemical corrosion.



FIRE CLAY

Fire clay, a variety of refractory clay, is essential in ceramics production, particularly for making fire bricks. Its exceptional resistance to high temperatures, with fusion points exceeding $1,600^\circ\text{C}$ ($2,910^\circ\text{F}$), makes it indispensable for lining furnaces and manufacturing crucial tools in metalworking industries. These include crucibles, saggars, retorts, and glassware, where durability and heat resistance are paramount.



BALL CLAY

Ball clays are extremely plastic, fine-grained clays that are primarily employed in the production of ceramic sanitary ware and whiteware. These clays are appreciated for their flexibility, unfired strength, and light color after firing.



POCHA CLAY CERAMICS

Pocha clay is utilized for creating both utilitarian and decorative pottery, as well as construction products such as bricks, walls, and floor tiles. Various types of clay, combined with different minerals and firing techniques, are employed to produce a wide range of ceramic ware, including earthenware, stoneware, and porcelain.



WHITE FLINT CLAY

White Flint Clay is well-suited for the refractory industry, where it is used in the manufacturing of bricks, castables, and plastic refractory products. Additionally, it serves the pottery and terra cotta industries as a grog, enhancing various body formulations.

USES OF CHINA CLAY / KAOLIN CLAY

1. **Ceramics and Pottery:** China clay is essential in the ceramics industry for making porcelain, fine china, and pottery due to its pure white color, high plasticity, and fine particle size.
2. **Paper Industry:** Kaolin is used as a filler and coating pigment in the paper industry to improve brightness, smoothness, and printability of paper products.
3. **Rubber and Plastics:** It serves as a reinforcing agent in rubber and plastics, enhancing strength, stiffness, and durability.
4. **Paints and Coatings:** China clay is used as an extender in paints, coatings, and sealants to improve opacity, whiteness, and rheology.
5. **Cosmetics and Pharmaceuticals:** Kaolin is used in cosmetics such as face masks and skincare products due to its gentle exfoliating and oil-absorbing properties. It is also used in pharmaceutical formulations.
6. **Agrochemicals:** It is used as an inert carrier in pesticides and fertilizers to improve dispersion and application properties.
7. **Fiber Glass and Refractories:** China clay is used in fiber glass production as a binder and in refractory materials for its high heat resistance.
8. **Cement and Concrete:** Kaolin is used in cement and concrete production as a filler and pozzolan, improving workability and durability.
9. **Environmental Applications:** It is used in environmental applications such as wastewater treatment and landfill liners due to its adsorption properties.

SILICA QUARTZ

Silica, also known as silicon dioxide (SiO₂), is indeed a fundamental compound found abundantly in nature. It is a major component of quartz and various other minerals, as well as being present in living organisms. Quartz itself is a chemical compound comprising one part silica and two parts oxygen.

Silica quartz is found in Pakistan, particularly in the region of KPK & Baluchistan where geological conditions favor its formation. Pakistan is known to have deposits of silica quartz, which is important for various industrial uses due to its hardness and chemical properties. These deposits contribute to Pakistan's mineral wealth and are utilized in industries such as glass manufacturing, ceramics, electronics, and construction materials.

ANS Enterprises is a premier supplier and exporter of Silica Quartz in Pakistan. We specialize in providing high-quality Silica Quartz Lumps and Silica Quartz Powder at competitive prices. Renowned for our reliability and superior products, we serve a wide range of industrial needs with unwavering commitment to quality and customer satisfaction.

SPECIFICATIONS

S.No	Parameters	Results
1	SILICA SiO ₂	98%--99.65
2	Iron Oxide Fe ₂ O ₃	0.02%-0.086%
3	Aluminium Oxide Al ₂ O ₃	0.01%-0.25%
4	Calcium Oxide CaO	0.01%
5	Magnesium Oxide MgO	0.01%
6	Titanium Dioxide TiO ₂	0.01%
7	Potassium Oxide K ₂ O	0.01%
8	Sodium Oxide Na ₂ O	0.01%
9	Loss On ignition L.O.I	0.12%
10	Burning Whitness	96.80%
11	Firing Temperature	1200°C



MILKY QUARTZ



WATERY QUARTZ



SMOKEY QUARTZ

USES OF SILICA QUARTZ

Silica quartz has a wide range of uses across various industries due to its unique properties. Here are some of the primary uses:

- **Glass Manufacturing:** Silica quartz is a key ingredient in the production of glass. It provides the necessary silicon dioxide, which gives glass its clarity and strength.
- **Electronics:** High-purity silica quartz is used in the production of semiconductors and photovoltaic cells. It is a crucial component in the manufacturing of silicon wafers used in electronics and solar panels.
- **Construction:** Silica quartz is used in the production of cement, mortar, and concrete. It provides durability and resistance to weathering.
- **Foundry:** In the foundry industry, silica sand is used as a refractory material to create molds and cores for metal casting.
- **Abrasives:** Silica quartz is used as an abrasive material in sandblasting and in the production of abrasive tools like grinding wheels and cutting wheels.
- **Ceramics:** It is used in the production of ceramics, including tiles, sanitary ware and porcelain. Silica quartz helps improve the strength and thermal properties of ceramics.
- **Paints and Coatings:** Finely ground silica is used as a filler and extender in paints and coatings. It improves durability, reduces gloss, and enhances the texture of the coating.
- **Filtration:** Silica sand is used in water filtration systems. Its high porosity and mechanical strength make it effective for filtering contaminants from water.
- **Chemical Production:** Silica quartz is used in the production of chemicals, including silicones and silicates, which are used in a variety of industrial applications.
- **Oil and Gas Industry:** Silica sand is used in hydraulic fracturing (fracking) to prop open fractures in shale rock, allowing oil and gas to flow out more easily.
- **Sports and Recreation:** It is used in the construction of sports fields, golf courses, and playgrounds as a durable and stable surface material.
- **Plastics and Rubber:** Silica is used as a filler in the production of plastics and rubber products to enhance their strength and durability.

SILICA SAND/QUARTZ SAND

Silica sand, commonly known as quartz sand, is a naturally occurring mineral composed mainly of silicon dioxide (SiO₂). Renowned for its purity, durability, and versatility, silica sand is a vital material for numerous industries, including glassmaking, construction, cast iron, ceramics, and water filtration. Its high quartz content and fine micro-grain structure make it indispensable in various chemical and industrial applications worldwide. At ANS Enterprises, we meticulously select our silica sand suppliers, recognizing the importance of ethics and reputation in our industry. Pakistan boasts extensive silica sand reserves, particularly in the Southern zone of Sindh province and the Eastern parts of the Punjab region. Our experienced team of experts collaborates with reputable mines and trusted suppliers to ensure the quality and authenticity of our silica sand exports. This commitment guarantees that our products meet the highest standards, serving the diverse needs of our global clientele.

SPECIFICATIONS

S.NO	PARAMETERS	STD	TEST RESULTS
1	SiO ₂ %	≥ 98.5	98.60
2	Fe ₂ O ₃ %	Grading	0.048
3	Al ₂ O ₃ %	≤ 0.50	0.55

SAND SIZES

S.No.	Size (mm)	Effective Size (mm)	Hydraulic Size (mm)
1	0.425 – 0.85	0.44 – 0.54	0.522 – 0.64
2	0.50 – 1.00	0.522 – 0.64	0.62 – 0.76
3	0.60 – 1.18	0.62 – 0.76	0.73 – 0.89
4	0.71 – 1.40	0.73 – 0.89	0.87 – 1.07
5	0.85 – 1.70	0.87 – 1.07	1.03 – 1.254
6	1.00 – 2.00	1.03 – 1.254	1.224 – 1.50
7	1.18 – 2.36	1.25 – 1.55	1.50 – 1.78
8	1.40 – 2.80	1.40 – 1.705	1.62 – 1.98



BROWN SILICA SAND YELLOW SILICA SAND WHITE SILICA SAND

SILICA SAND USES

Silica sand, also known as quartz sand, has a multitude of uses across various industries due to its high silica content and unique properties. Here are some of the primary uses:

1. **Glassmaking:** Silica sand is a key component in the manufacture of glass. It provides the necessary silicon dioxide, which is essential for producing high-quality glass for windows, bottles, and other products.
2. **Construction:** It is used in the production of cement, mortar, and concrete, providing durability and strength. Silica sand is also used as a filler in construction materials like asphalt and roofing shingles.
3. **Foundry:** In the foundry industry, silica sand is used to create molds and cores for metal casting. Its high melting point and chemical inertness make it ideal for this application.
4. **Ceramics and Refractories:** Silica sand is used in the production of ceramics such as tiles, sanitary ware, and porcelain. It helps improve the strength and thermal properties of ceramic products. It is also used in the manufacture of refractory materials that withstand high temperatures.
5. **Water Filtration:** Silica sand is widely used in water filtration systems due to its high porosity and mechanical strength. It effectively filters out contaminants from drinking water and wastewater.
6. **Abrasives:** It is used as an abrasive material in sandblasting, and in the production of abrasive tools like grinding wheels and cutting wheels.
7. **Paints and Coatings:** Finely ground silica sand is used as a filler and extender in paints and coatings. It enhances durability, reduces gloss, and improves the texture of the coating.
8. **Oil and Gas Industry:** In hydraulic fracturing (fracking), silica sand is used as a proppant to prop open fractures in shale rock, allowing oil and gas to flow out more easily.
9. **Plastics and Rubber:** Silica sand is used as a filler in the production of plastics and rubber products, improving their strength and durability.
10. **Sports and Recreation:** It is used in the construction of sports fields, golf courses, and playgrounds, providing a stable and durable surface.
11. **Chemicals:** Silica sand is used in the production of chemicals such as sodium silicate, silicon tetrachloride, and silicones, which are used in a variety of industrial applications.
12. **Filtration Media:** Besides water filtration, silica sand is also used in air and industrial filtration systems due to its effectiveness in removing impurities.

Calcium Carbonate (Limestone)

Calcium carbonate is a chemical compound with the chemical formula CaCO_3 . It is a common substance found in rocks as the minerals calcite and aragonite, most notably in chalk and limestone, eggshells, gastropod shells, shellfish skeletons and pearls.

While many companies produce Calcium Carbonate in Pakistan, ANS Enterprises stands out as the top exporter due to our commitment to quality and competitive pricing. Our Calcium Carbonate is renowned for its superior quality, surpassing that of other producers. Additionally, our rates are among the most competitive in the industry. We specialize in exporting bulk quantities of Calcium Carbonate powder to clients all over the world. If you are in search of a reliable and top-quality Calcium Carbonate exporter in Pakistan, ANS Enterprises is your best choice. Our dedication to excellence ensures that you receive the highest quality product at the most affordable rates.

SPECIFICATIONS

❑ Chemical Analysis

➤ Calcium Oxide	CaO	Based on ASTM-C 25-06	55.03%
➤ Calcium Carbonate	CaCO ₃	Calculated	98.32%
➤ Silica	SiO ₂	Based on ASTM-C 25-06	00.21%
➤ Magnesium Oxide	MgO	Based on ASTM-C 25-06	00.29%
➤ Iron Oxide	Fe ₂ O ₃	Based on ASTM-C 25-06	0.019%
➤ Alumina	Al ₂ O ₃	Based on ASTM-C 25-06	0.006%

❑ Physical Analysis

➤ Density	(ISO 787/10)	2.72 g / ml
➤ Bulk Density	(ISO 787/11)	0.85 g / ml
➤ Hardness	(Moh's)	2.8 – 3.1
➤ Moisture Content	(ISO 782/2)	≤ 0.2 %
➤ Whiteness	L	94% – 96%
➤ Brightness	Rx/Ry/Rz/R457	95% – 97%



USES OF CALCIUM CARBONATE

Calcium carbonate is a versatile compound with numerous applications across various industries. Here are some of its primary uses:

1. **Construction:** Used as a building material in the form of limestone and marble. An essential component in cement and concrete, contributing to their strength and durability. Used as a filler in asphalt and as a key ingredient in mortar and plaster.
2. **Plastics and Rubber:** Acts as a filler to improve the physical properties of plastics and rubber, enhancing their strength, durability, and resistance to heat.
3. **Paper Industry:** Used as a filler and coating material in paper production to improve brightness, opacity, and smoothness. Reduces the consumption of more expensive wood fiber and enhances the quality of the paper.
4. **Paints and Coatings:** Functions as a white pigment and filler in paints and coatings, providing opacity and enhancing the durability of the coating.
5. **Agriculture:** Applied as agricultural lime to neutralize acidic soils, improving soil quality and crop yield. Used as a calcium supplement in animal feed to promote healthy bone growth and overall health in livestock.
6. **Food and Pharmaceuticals:** Used as a calcium supplement in dietary products and as an antacid in pharmaceuticals to relieve heartburn and indigestion. Acts as a firming agent in canned vegetables and a stabilizer in various food products.
7. **Water Treatment:** Utilized to soften water by removing impurities and neutralizing acidic water. Helps in the removal of harmful contaminants from drinking water and industrial wastewater.
8. **Glass Manufacturing:** An essential ingredient in the production of glass, helping to improve clarity, strength, and durability.
9. **Cosmetics and Personal Care:** Used as an abrasive in toothpaste to help clean teeth. Acts as a bulking agent and opacifier in various cosmetic products.
10. **Environmental Applications:** Used in flue-gas desulfurization to remove sulfur dioxide from exhaust gases in power plants, reducing air pollution. Helps in the remediation of contaminated soils and water.
11. **Adhesives and Sealants:** Serves as a filler to improve the properties of adhesives and sealants, enhancing their strength and durability.
12. **Ceramics:** Used in the production of ceramics to improve the strength and whiteness of the final product.

TALC/SOAP STONE

Talc is a rock known as steatite or soapstone, which is composed of varying proportions of the mineral talc, often combined with other minerals such as chlorite and carbonate. • Talc is an industrial raw material in powder form, which is used in a wide range of applications.

PHYSICAL CHARACTERISTICS

- Color is snow white to almost silver.
- Luster is dull to pearly or greasy.
- Transparency crystals are translucent and masses are opaque.
- Crystal System is monoclinic; 2/m.
- Hardness is 1 (can leave mark on paper)
- Specific Gravity is 2.7 – 2.8 (average)

SPECIFICATIONS

USE OF INSTRUMENTS: ELECTRONIC BALANCE 、 BURETTE 、 ATOMIC
ABSORPTION SPECTROPHOTOMETER

TEST BASIS: GB/T14506.3-2010 GB/T14506.6-2010 GB/T14506.7-2010
GB/T14506.5-2010

NO.	ANALYSIS	TEST RESULTS				
		SiO ₂	MgO	Fe ₂ O ₃	CaO	WHITENESS
Grade A Talc Lump	238	63.55	29.92	0.58	1.73	95.5
Grade B Talc Lump	239	62.47	28.23	0.49	2.81	94.5
Talc Powder	240	59.35	27.76	0.47	2.06	92



TALC A-GRADE



TALC B-GRADE



TALC POWDER

USES OF TALC

Talc, known for its softness and versatile properties, has a wide range of uses across various industries. Here are some of its primary applications:

Cosmetics and Personal Care: Talcum Powder: Used to absorb moisture, reduce friction, and keep the skin dry and smooth. Makeup: Found in products like foundation, blush, and eyeshadow to improve texture and coverage.

Paper Industry: Filler and Coating: Enhances the smoothness, brightness, and opacity of paper, making it ideal for high-quality printing and writing paper.

Plastics and Rubber: Filler: Improves the mechanical properties, heat resistance, and processability of plastics and rubber products.

Paints and Coatings: Extender and Filler: Provides a smooth finish, enhances durability, and improves weather resistance in paints and coatings.

Ceramics: Strength and Stability: Used in the manufacture of ceramics to enhance thermal and mechanical properties.

Pharmaceuticals: Tablet Manufacturing: Acts as an inactive filler in tablets and a lubricant in the tablet production process.

Food Industry: Anti-Caking Agent: Prevents clumping in food products, ensuring a smooth texture.

Agriculture: Pesticide Carrier: Used as a carrier for pesticides and insecticides, ensuring even distribution and effectiveness.

Construction: Roofing Materials and Sealants: Enhances the properties and performance of construction materials.

Textiles: Fabric Treatment: Improves the quality and durability of fabrics.

Electronics: Filler in Insulators: Used in the production of electrical insulators and other electronic components to improve heat resistance and stability.

Sculpting and Carving: Artistic Use: Soapstone, a form of talc, is used by artists for sculpting due to its softness and ease of carving.

MAGNESITE (MAGNESIUM CARBONATE)

Magnesite is a magnesium carbonate mineral with the chemical formula MgCO_3 , named for its magnesium content. It typically forms through the alteration of magnesium-rich or carbonate rocks via metamorphism or chemical weathering. Magnesite is primarily utilized to produce magnesium oxide (MgO), which serves as a refractory material for the steel industry and as a raw material for the chemical industry. Additionally, small amounts of magnesite are used as gemstones and lapidary materials. In its raw form, magnesite appears as white, gray, or brown porous crystals. In its purest form, the mineral contains about 44 to 45 percent magnesium. We can supply magnesite in both raw (bulk) form and in powder (300 mesh) form.

SPECIFICATIONS

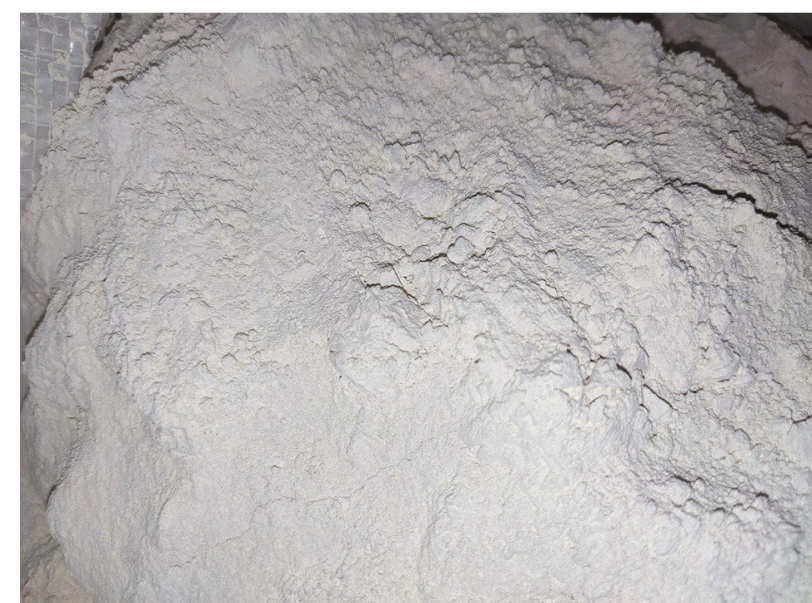
S.NO	PARAMETERS	RESULTS	
		GRADE-A	GRADE-B
1	Magnesium Oxide MgO	47%	44%
2	Silica SiO_2	0.30%	1.50%
3	Calcium Oxide CaO	1.30%	1.90%
4	Iron Oxide Fe_2O_3	0.01%	0.59%
5	Loss on Ignition	>50%	>48%



MAGNESITE LUMPS GRADE A



MAGNESITE LUMPS GRADE B



MAGNESITE POWDER

USES OF MAGNESITE

Magnesite, a magnesium carbonate mineral with the chemical formula MgCO_3 , has a variety of industrial applications due to its properties. Here are some of its primary uses:

- **Refractory Material: Magnesium Oxide Production:** Magnesite is used to produce magnesium oxide (MgO), a refractory material essential for lining furnaces, kilns, and other high-temperature industrial equipment in the steel industry. MgO is valued for its high melting point and stability at elevated temperatures.
- **Chemical Industry: Raw Material:** Magnesite serves as a raw material in the production of various magnesium-based chemicals and compounds, including magnesium chloride, magnesium sulfate, and magnesium carbonate, which have applications in agriculture, food, and pharmaceuticals.
- **Construction: Cement and Concrete:** Magnesium oxide derived from magnesite is used in the production of Sorel cement (magnesia cement), which is known for its strength, durability, and resistance to certain chemicals. It is also used in the production of lightweight building materials.
- **Environmental Applications:**
 - **Water Treatment:** Magnesium oxide is used in water treatment processes to neutralize acidic water and to remove impurities. It is also employed in flue gas desulfurization to reduce sulfur emissions from power plants.
- **Agriculture: Soil Conditioner:** Magnesium carbonate is used to correct magnesium-deficient soils, promoting healthy plant growth and increasing crop yields.
- **Pharmaceuticals and Food Industry: Dietary Supplements:** Magnesium carbonate is used as a magnesium supplement in dietary products and pharmaceuticals.
- **Antacid:** Magnesium carbonate is an active ingredient in antacids to relieve indigestion and heartburn.
- **Paper and Pulp Industry: Bleaching Agent:** Magnesium compounds are used in the paper and pulp industry as a bleaching agent and to improve the quality of the final product.
- **Gemstones and Lapidary: Jewelry:** High-quality magnesite can be used as a gemstone and lapidary material. It is often dyed to imitate other gemstones, such as turquoise.
- **Rubber and Plastics: Filler:** Magnesium carbonate is used as a filler material in the production of rubber and plastics to enhance their properties.

PUMICE STONE

Pumice stone is a lightweight, porous igneous rock formed during explosive volcanic eruptions. It has long been utilized as an abrasive in cleaning, polishing, cosmetics, skin care products, and scouring compounds. In agriculture, it enhances crop and plant production. Additionally, pumice stone serves as a lightweight aggregate in precast masonry units, poured concrete, insulation, acoustic tile, and plasters.

APPLICATIONS OF PUMICE STONE

Pumice stone can be used in multiple industries, including:

- **Health and Skin Care:** Used in exfoliating products and cosmetics for its gentle abrasive properties.
- **Cosmetics:** Incorporated into creams, lotions, gels, soaps, and other beauty products.
- **Abrasive and Polishing:** Ideal for polishing metals, cleaning household surfaces, and removing pilling from fabrics.
- **Rubber Production:** Acts as a filler to improve the properties of rubber products.
- **Glass Industry:** Used in the production of glass for its lightweight and abrasive qualities.
- **Oil Absorption and Cleaning:** Effective in absorbing oil and grease stains.
- **Paint Production:** Serves as a filler and extender in paints.
- **Textile Industry:** Used in washing denim, leather garments, and other fabrics to achieve a worn-in look.
- **Agriculture:** Enhances soil aeration and water retention, benefiting plant growth and health.
- **Construction:** Utilized in the production of lightweight concrete blocks, panels, walls, and bricks. Pumice concrete is known for its low density, lightweight, and thermal performance, making structures more durable and cost-effective.
- **Construction Grade Pumice Stone Pumice Aggregates and Sand:** Used to produce lightweight concrete and blocks, reducing the structural load and overall project costs while enhancing durability.
- **Cement Grade Pumice Stone Pumice and Cement:** Pumice has been historically used in cement mixtures to improve durability and longevity, a practice dating back to Roman engineering.
- **Agriculture Grade Pumice Stone Soil Amendment:** Highly effective for improving soil structure and plant health, promoting better growth and productivity.
- **Textile Grade Pumice Stone Garment Washing:** Used in the textile industry for washing denim and other garments to create a desired worn-in appearance.
- **Perlite Alternative Horticulture Grade Pumice:** Used in horticulture, nurseries, and gardening to improve soil aeration, moisture retention, and root health without decomposing over time.



PUMICE STONE



**PUMICE STONE
AGRICULTURE
GRADE**



**PUMICE STONE
TEXTILE GRADE**

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ADDRESS: Room No 46, 47, 4TH Floor Abid Chamber, Shahrah-e-Faisal New chalii Karachi.

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CONTACT US



+92-312-2337939



wxid_kv5c7cg5griu22



ansent.3246@gmail.com



+92-312-2337939, +92-333-2337938, +92-312-2337938



021-32601209, 021-32601210

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