



ESHAL INDUSTRIES

Local Roots, Global Reach
Mines Owner | Manufacturer | Exporter



We deal in Talc (Soapstone), Flourspar,
Magnesite, Sodium & Potash Feldspar,
Iron Ore, Gypsum & Quartz



ESHAL INDUSTRIES

Eshal Industries is a well known multinational company established in 2008. We have offices in Dubai, Riyadh, Karachi, Multan, and factory in Gadani Balochistan. We are leading Supplier of Fluorspar, Talc, Magnesite, Bauxite, Barite, kaolin, Chromite, Feldspar, Gypsum, LimeStone, Ferroalloys, Iron Ore and Pink Salt etc.

We are supplying these products to the GCC, FAR EAST, EUROPE, SOUTH ASIA's leading Steel, Cement, Pharmaceuticals, Paint, Paper and food Industries. With our best quality products and services we have very long and reliable connections with these industries.

Our mine is geographically located and very accessible to the port that enables us for easy facilitation of shifting cargo from mine to port. We also have a wide range of equipment and facilities for land transportation and exportation of our mining products.

Our company is rapidly growing and its operations have been expanded into the production and development of other related products. We are using updated and innovative machineries and equipment that enable us to produce different product sizes as per our customer's requirements.



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GREY ROCK RAW MATERIAL TRADING LLC

GREY ROCK RAW MATERIAL TRADING LLC is the affiliated company of ESHAL INDUSTRIES was established 2013 in Ras Al Khaimah Free Zone (United Arab Emirates) to handle GCC clients.

GREY ROCK RAW MATERIAL TRADING LLC providing customers a competitive advantage through superior and high-quality products and services with new ideas, information, professional development and quality standards.

MINING PRODUCTS

Eshal industries engaged in supplying and exporting the finest quality of mining products in local and international markets. It offers various mining products such as Fluorspar, Talc, Barite, Chromites, Bauxite, Magnesite and Kaolin. These mining products have numerous applications in different industries such as chemical, construction , steel and cement and other industries.

PAKISTAN'S FIRST FLUORSPAR PROCESSING PLANT

Eshal Industries Fluorspar Plant is Pakistan's first Fluorspar processing plant that employee the most updated machinery and equipment based on latest technology in conformity with modern standard at (Baluchistan-Hub) Pakistan producing high quality Fluorite in different grades and sizes.

Fluorspar (CaF₂)

Talc (soapstone)

Raw Magnesite

Barite

Chromite

Buxite

MANGANESE

Limestone

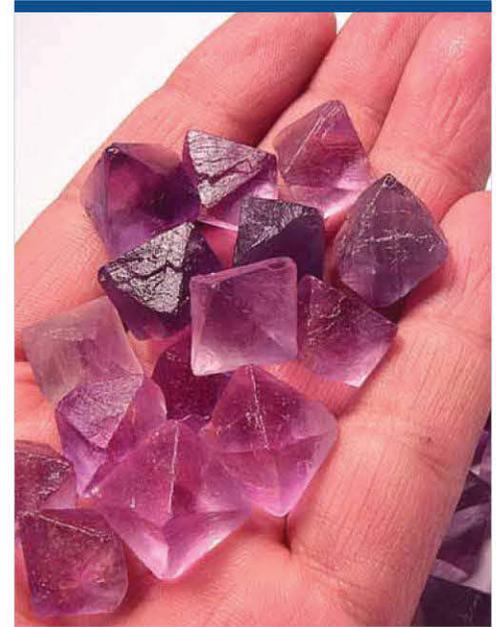
Iron Ore

Gypsum

Quartz

Feldspar

1- Fluorspar (CaF₂)



Calcium fluoride is a mineral composed of calcium fluoride (CaF₂), the principal fluorine-bearing mineral. It occurs as cubic, isometric crystals and cleavable masses. When pure, it is colorless and transparent, or translucent with a glassy luster. Impurities cause color in the stone, and several varieties exhibit fluorescence. Usually found either in pure veins or associated with lead, silver, or zinc ores, it is common in limestone and dolomites.

Fluorite comes in a wide range of colors and has subsequently been dubbed "the most colorful mineral in the world". The most common colors are purple, blue, green, yellow, or colorless. Less common are pink, red, white, brown, black, and nearly every shade in between. Color zoning or banding is commonly present. The color of the fluorite is determined by factors including impurities, exposure to radiation, and the size of the color centers.



CHEMICAL NAME: FLUORSPAR

CHEMICAL FORMULA: CaF_2

CHEMICAL PROPERTIES

- 01 Crude ore- 25 to 30%
- 02 Metallurgical grade- 75 to 82%
- 03 Ceramic grade- 94 to 96%
- 04 Acid grade- 97%
- 05 Crystalline grade- 99%

TYPICAL APPLICATIONS

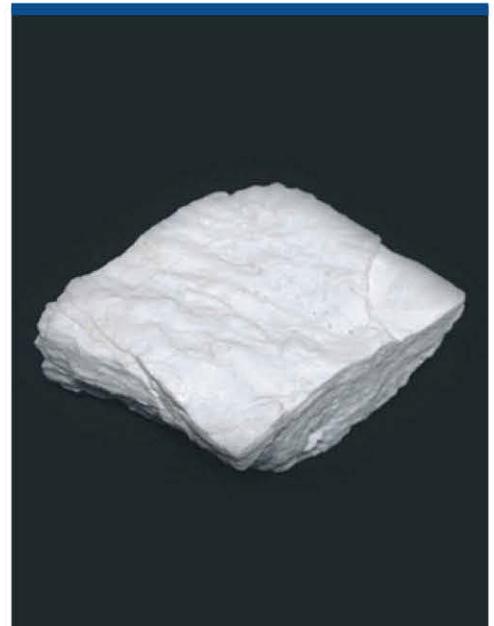
Calcium fluoride is a vital component in several industrial applications, including steel production. It is also used to make hydrogen fluoride (AHF) which, in turn, is used in the production of refrigerants and to make aluminium tri-fluoride (AlF_3), critical in aluminium smelting; uranium fluoride (UF_6), used in nuclear power stations; and lithium hexafluorophosphate (LiPF_6), used to make the electrolyte for lithium batteries.

Other applications further downstream are:

- ✓ Refrigerants
- ✓ Ceramics
- ✓ Glass
- ✓ Plastics
- ✓ Healthcare Equipment
- ✓ Construction Materials
- ✓ Electronic And Electrical Equipment
- ✓ Motor Vehicles
- ✓ Pharmaceuticals
- ✓ Fluoro chemicals



2- Talc (soapstone) $Mg_3Si_4O_{10}(OH)_2$



Pakistan is host to some of the best Talc deposits in the world, which are now being brought forth by Eshal Industries.

Talc, Hydrous magnesium silicate $Mg_3Si_4O_{10}(OH)_2$ is a hydrous magnesium silicate mineral with a chemical composition of $Mg_3Si_4O_{10}(OH)_2$. Although the composition of talc usually stays close to this generalized formula, some substitution occurs. Talc, a mineral made up mainly of the elements magnesium, silicon, and oxygen. As a powder, it absorbs moisture well and helps cut down on friction, making it useful for keeping skin dry and helping to prevent rashes.

TYPICAL APPLICATIONS

Talc is used in many industries, including paper making, plastic, paint and coatings, rubber, food, electric cable, pharmaceuticals, cosmetics, and ceramics. A coarse grayish-green high-talc rock is soapstone or steatite, used for stoves, sinks, electrical switchboards.

PHYSICAL PROPERTIES

Ground talc makes talcum powder. The massive variety (soapstone) is used for sinks, table tops, etc. Soapstone found a use in Babylonian days when signature cylinder seals were often carved from it.

The Egyptians also used it as a base for some of their blue faience figurines, which were then fired to fuse the glaze. California Indians also used it as sculpture material.

- a) Ceramic grade (Coarse, medium & fine)
- b) Cosmetic grade
- c) Paint grades
- d) USP grade
- e) Soapstone grade
- f) Micronized grade
- g) Finely ground grade



3- Raw Magnesite



Cryptocrystalline Magnesite $MgCO_3$ with extremely low silica and iron content, white colour, and very low level of heavy metals.

RMA is a raw magnesite milled product with 90% MgO content on ignited basis, which is used in the production of ceramics (tiles etc.).



USAGE AREAS OF MAGNESITE ORE AND MAGNESIUM COMPOUNDS

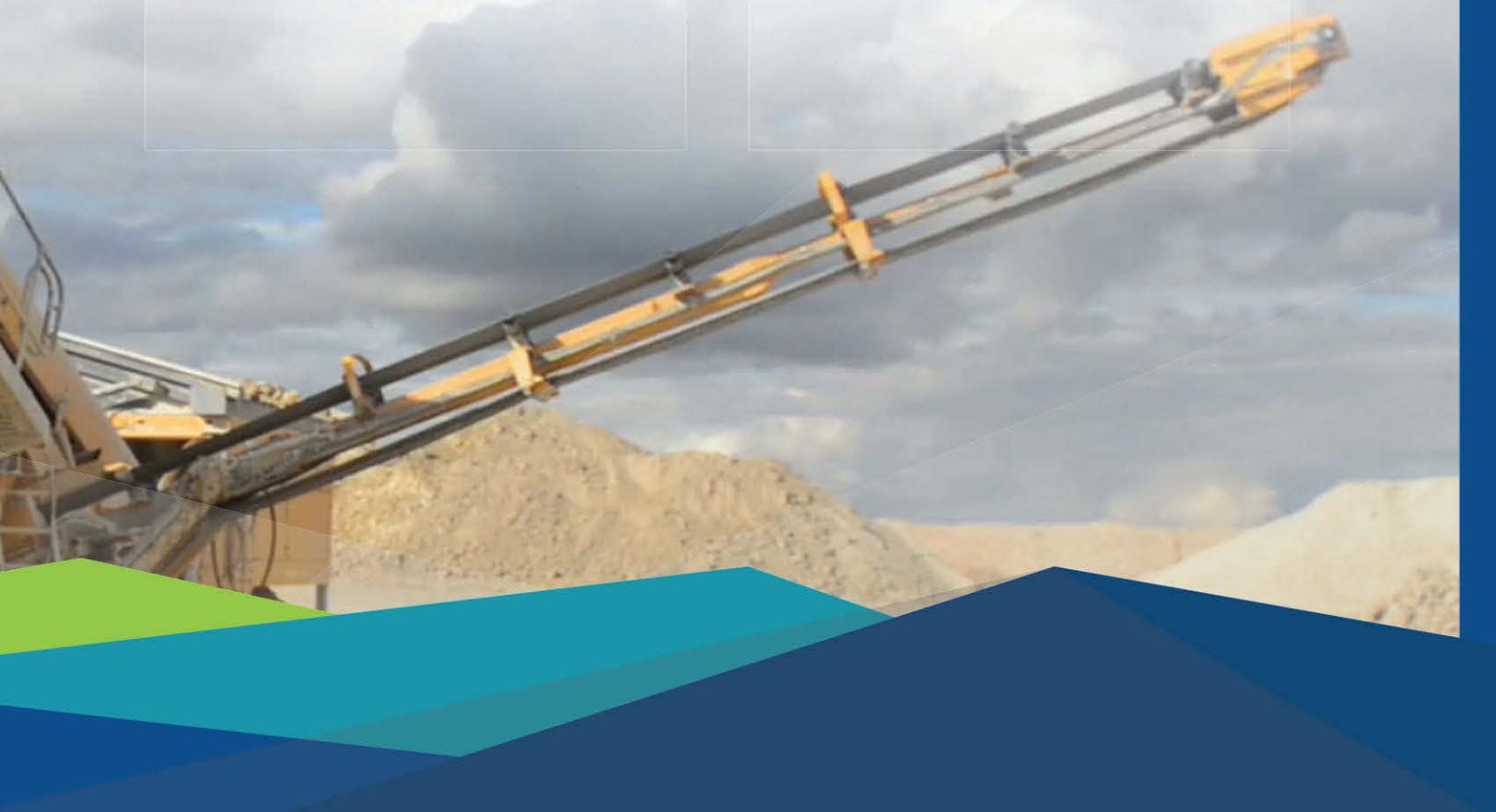
- 1 Magnesium Carbonate: isolation, rubber, ink, glass, ceramics, paint, pharmacy and cosmetics industry.
- 2 Magnesium Hydroxide: Pharmaceuticals and sugar refining.
- 3 Magnesium Chloride: Magnesium metal production, textile, paper, ceramics and cement.
- 4 Magnesium sulphate: Pharmaceuticals, artificial fertilizer industry.

APPLICATIONS

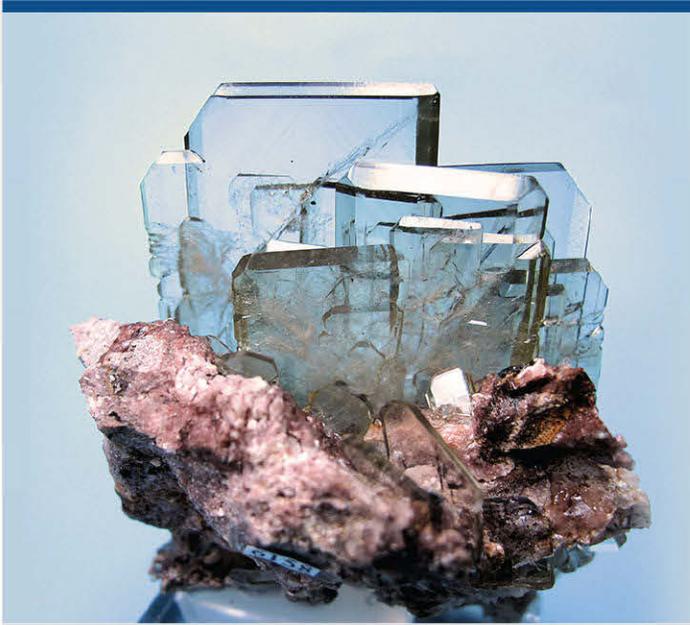
- ✓ Brick making
- ✓ Magnesium Salt
- ✓ Drugs
- ✓ Cement
- ✓ Paper

TYPICAL CHEMICAL FEATURES OF RAW MAGNESITE

- MgO : 42 – 46 %
- SiO₂ : 0,8 – 3 %
- Fe₂O₃ : 0,3 – 1,5 %



4- Barite



Barite is a mineral composed of barium sulphate ($BaSO_4$). It receives its name from the Greek word "baryte" which means "heavy." This name is in response to barite's high specific gravity of 4.5, which is exceptional for a non-metallic mineral. Barite is generally white or colorless, and is the main source of barium. The baryte group consists of baryte, Celestine, anglesite, and anhydrite. The high specific gravity of barite makes it suitable for a wide range of industrial, medical, and manufacturing uses. Barite also serves as the principal ore of barium.

APPLICATIONS

- ✓ Oil Well Drilling
- ✓ Paper-Making Industry
- ✓ Cosmetics
- ✓ White pigments
- ✓ Section Paints, Enamel and coatings
- ✓ Adhesives Sealants
- ✓ Rubber
- ✓ Plastic Industry
- ✓ Pharmaceutical Industry

5- Chromite



Chromite is a mineral that is an iron chromium oxide. It has a chemical formula of FeCr_2O_4 . It is an oxide mineral belonging to the spinel group. The element magnesium can substitute for iron in variable amounts as it forms a solid solution with magnesiochromite (MgCr_2O_4).

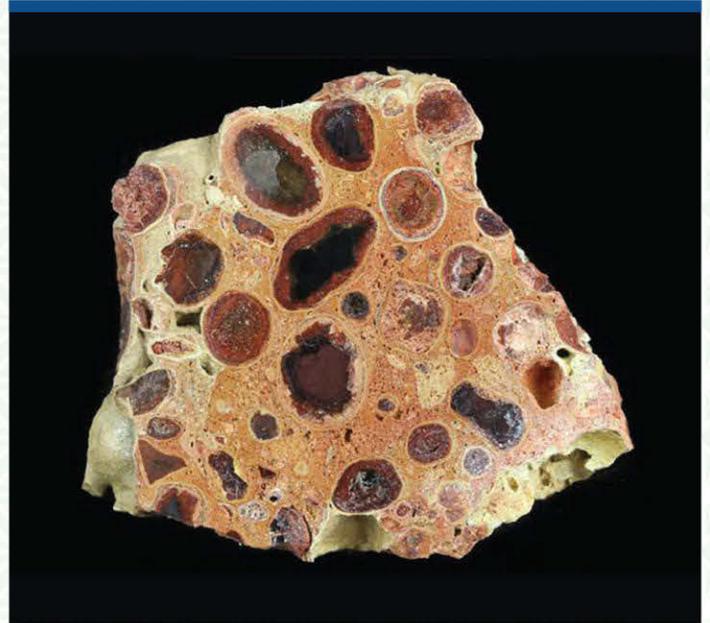
APPLICATIONS

Chromite today is mined particularly to make stainless steel through the production of ferrochrome (FeCr), which is an iron-chromium alloy.

Chromite grains are commonly found in large mafic igneous intrusions such as the Bushveld in South Africa and Travancore in India. Chromite is iron-black in color with a metallic luster, a dark brown streak and hardness on the Mohs scale of 5.5.



6- Buxite



Bauxite ore is the world's main source of aluminum. Bauxite is a rock formed from a reddish clay material called laterite soil and is most commonly found in tropical or subtropical regions. Bauxite is primarily comprised of aluminum oxide compounds (alumina), silica, iron oxides and titanium dioxide. Whether for the refractory industry or metallurgy – we offer raw bauxite in various qualities and preparations.

APPLICATIONS

Aluminium ore bauxite can be found in a variety of applications. As calcined bauxite, this raw material is a central raw material in the refractory industry thanks to its highly refractory properties. This versatile mineral is also in demand in steel production as slag conditioner, in the production of refractory aluminium oxide cement, in road construction, in mineral wool production and as welding powder.

7- MANGANESE

Manganese is a chemical element, designated by the chemical symbol "Mn". It is found as a free element in nature (often in combination with iron) and could be found in many minerals. Manganese is the fourth most used metal in terms of tonnage, being ranked behind iron, aluminium and copper.



APPLICATIONS

- ✓ Steelmaking
- ✓ Batteries
- ✓ Chemicals



8- Kaolin

Kaolinite is a clay mineral, part of the group of industrial minerals with the chemical composition $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$. It is a layered silicate mineral, with one tetrahedral sheet of silica linked through oxygen atoms to one octahedral sheet of alumina octahedra. White, sometimes red, blue or brown tints from impurities

APPLICATIONS

- ✓ Refractories
- ✓ Ceramic and Porcelain
- ✓ Cement
- ✓ Paints & adhesives
- ✓ Cosmetics and Personal care
- ✓ Water treatment
- ✓ Metallurgy and alloys

9- Limestone



We are supplying and exporting high quality LIMESTONE ROCKS in huge quantity. Our LIMESTONE mine is using several production lines and advanced machineries to meet our customers' requirements.

Our Limestone Available sizes are 6-15 mm, 15-25mm, 25-50mm, 50-150mm, 0-40mm, 0-50mm and 40-50mm.

APPLICATIONS

- ✓ Steel manufacturing
- ✓ Cement manufacturing
- ✓ Glass manufacturing
- ✓ Road ballast
- ✓ Steel manufacturing
- ✓ Cement manufacturing
- ✓ Glass manufacturing
- ✓ Road ballast

10- Iron Ore



Eshal industries highly engaged in supplying and exporting of highly demanded IRON ORE. We can facilitate large order quantities of IRON ORE lumps and powder. Our IRON ORE products are available in different sizes and weights. The sizes we offer are 0-50 mm and 325 Mesh.

APPLICATIONS

- ✓ Steel industries
- ✓ Cement production
- ✓ Paint factories

11- Gypsum

We are suppliers and exporters of the best quality GYPSUM ROCKS. Our highly consistent GYPSUM ROCKS are chemically tested to assure quality and efficiency as well as it is available in various sizes in bulk. We also have a wide range of updated machineries and equipment to meet our customers' different requirements.

GRINDED GYPSUM is also supplied and exported by our company and available in 300 mesh size.

APPLICATIONS

- ✓ Manufacture gypsum panel
- ✓ Building plasters
- ✓ Cement Manufacturing
- ✓ As Fertilizer
- ✓ Chemical factories



12- Quartz

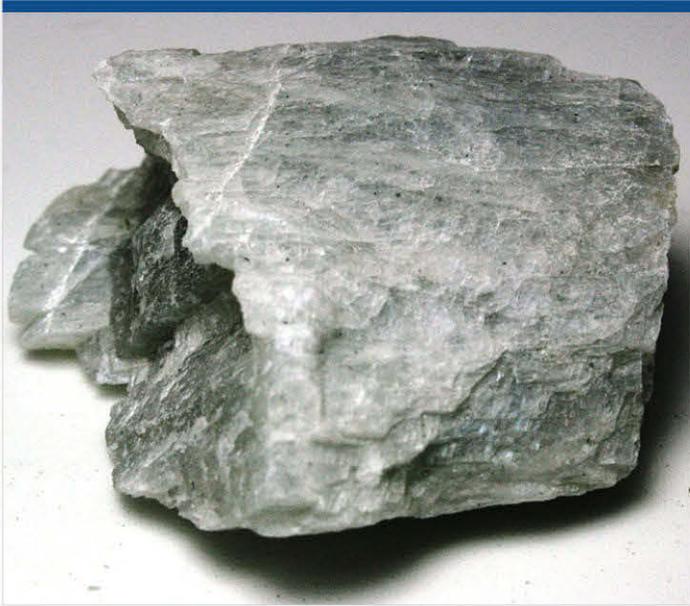
Quartz is the most abundant and widely distributed mineral found at Earth's surface. It is present and plentiful in all parts of the world . Eshal industries supplyi ng and exporting a wide range of quartz.

APPLICATIONS

- ✓ Glass making
- ✓ Abrasive
- ✓ Foundry sand
- ✓ Hydraulic fracturing proppant
- ✓ Gemstones



13- Feldspar



We are engaged in mining FELDSPAR from our own mines which is generally a clean white mineral that sources sodium, alumina and silica along with some potassium and calcium. We are manufacturing it in different sizes using our updated machineries and production lines. Our company is offering it at affordable prices.

APPLICATIONS

- ✓ Glass making
- ✓ Ceramics production



14- Salt



We are suppliers and exporters of Industrial salt. Salt sets the dye in fabric and is used to produce glass, polyester, plastics and leather as well as in the chemical industry. Salt assists in cleaning gas and oil wells and is an essential component in the manufacture of paper, tires, brass, bleach and case-hardened steel. Salt is part of the caustic soda and chloralkali processes. Industrial salts are often purchased in bulk and in various levels of purity depending on the application.

APPLICATIONS

- ✓ Manufacture of polyvinyl chloride
- ✓ Plastics
- ✓ Paper pulp
- ✓ Cooking
- ✓ Oil Industry
- ✓ Pharmaceutical Industry
- ✓ Detergents and fillers
- ✓ Building roads



OUR MINES & ENVIRONMENT

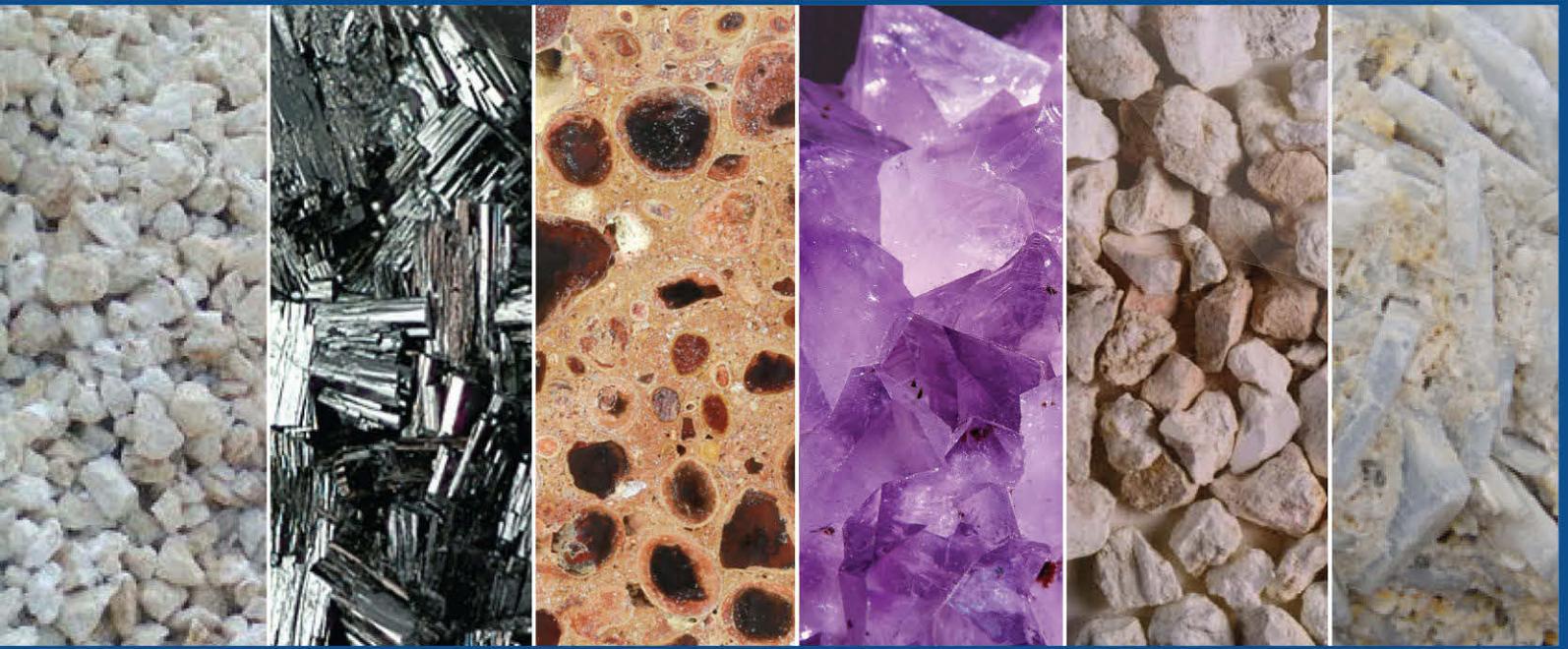
Pakistan is host to some of the best mineral deposits in the world, which are now being brought forth by Eshal Industries. With our own mines, each exhibiting a unique and diverse quality Eshal Industries have now made a systematic and well defined Mining Schedule and strategy to plan & sort out different grades of ores. Each ore sample is then carefully selected and analyzed on site, in terms of their Chemical & Physical properties and then rechecked at our main Laboratory in Karachi, Pakistan.

Eshal Industries mines are situated in the most beautiful & lush green valleys of the North West Frontier Province (NWFP) almost 1600 km North East of Karachi and all endeavours are made to environmentally protect this area. Trees are not allowed to be cut. Great care is taken to ensure that New Mine heads are not situated in and near dense foliage further trees are being planted and a Master plan to this effect is already in place to enhance the ecological balance & harmony of the area. Great care is taken at our mines to ensure that Child labour is not allowed and is totally forbidden.

QUALITY CONTROL

We pride ourselves in establishing the first modern laboratory with state of the art equipment totally dedicated to monitoring strict quality control of our products at each step from the small mines of NWFP to the vast markets of the world. Not an ounce leaves our premises until it has been tested retested and analyzed for the chemical and physical characteristics that have been promised to our customers. Our R&D team can also undertake production of various grades of powder to suit individual customer needs. We believe in quality and services for good business relations.







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