

باسم تعالی

مهارتورم و رشد تولید



جمهوری اسلامی ایران
وزارت نیرو

تاریخ: ۱۴۰۲/۰۷/۱۸ - ۱۰:۳۹:۴۱
شماره: ۱۴۰۲/۳۷۰۹۴/۱۲۰
پیوست: دارد



جناب آقای مهندس باقری

رئیس محترم هیات مدیره سندیکای صنعت برق ایران

موضوع: دعوت از شرکت های ایرانی برای تولید باتری های ذخیره انرژی آهن - هوا و گندله آهن در آفریقای جنوبی

با سلام و احترام

به پیوست نامه شماره 921/1770835 مورخ 1402-7-10 دستیار وزیر و مدیر کل آفریقا وزارت امور خارجه در بردارنده نامه شرکت کیلی انرژی (KILI Energy) آفریقای جنوبی در مورد برنامه احداث کارخانه تولید باتری - های ذخیره انرژی آهن - هوا با همکاری شرکت معدنی AMK (به همراه بروشور) و دعوت از شرکت های ایرانی برای سرمایه گذاری در موارد فوق، برای بهره برداری لازم ایفاد می گردد.

خواهشمند است دستور فرمایید در صورت اعلام آمادگی و تمایل شرکت ها برای مشارکت در فعالیت فوق، مراتب برای هماهنگی های بعدی به این مرکز اعلام شود.

مجتبی اکبری

رئیس مرکز امور بین الملل

رونوشت:

جناب آقای مهندس روغنی

مشاور محترم وزیر و مدیر کل دفتر وزارتی - جهت استحضار

سرکار خانم دکتر رحیمی

معاون محترم مرکز در امور پشتیبانی صنعتی مرکز توسعه صادرات و پشتیبانی صنایع آب و برق - مشاهده و رونوشت اقدام کننده: - نسترن رحیمی (معاون مرکز در امور پشتیبانی صنعتی مرکز توسعه صادرات و پشتیبانی صنایع آب و برق) ۸۱۶۰۶۸۵۲



ArvandMadan

AMK MINING Company.



AMK Co.



ARVAND MADAN CO, international Company was founded in 2008 with the primary goal of extracting and processing mineral products in different size for supplying and exporting to global markets according to customer's requirements. We are so pleased to have this opportunity to introduce ourselves as Mining & trading company, which is engaged with export mineral materials to other countries In a view heavy demand of such these products, we have centered all of our activities to transfer and export these items to global market over fifteen years.

Therefore, if your esteemed company is interested to have business relationship with us, we would be so glad to stablish new business line with your company permanently. We would be so pleased to receive your reply in this matter as soon as possible and your early attention to this regards will be highly appreciated.





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7th Floor ,Eram Tower, Yadbood Square, Bandar Abbas, Iran.



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➤ LIST OF PETROCHEMICAL/CHEMICAL PRODUCTS :

- ✓ Bitumen
- ✓ Urea
- ✓ Petroleum coke
- ✓ Base Oil
- ✓ Caustic Soda
- ✓ Sulfuric Acid
- ✓ Sodium Sulfide
- ✓ Iron Oxide
- ✓ Soda Ash
- ✓ Aluminum Powder
- ✓ White spirit
- ✓ Paraffin



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Chrome ore Lumpy

Chrome Ore Lumpy,

We are Miner & direct exporter of Chrome ore,
We Able to supply **Cr₂O₃** Grade : from 26% to 42% , **Quantity** : we able to supply monthly same quality 500MT to 10,000MT .



For checking our latest analysis test report and our available chrome ore , contact us Via Email or WeChat .



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CHROME ORE LUMPY

AMK Co

We Are Exporting Chrome ore lumpy & concentrate to china.

CR₂O₃ 40-42%
CR₂O₃ 38-40%
CR₂O₃ 36-38%

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weChat ID: arvandmadan



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Chrome Ore

Lumpy

We have great experience of
exporting chrome ore to china .

Cr₂O₃ : 40% - 42%

38% - 40%

36% - 38%

34% - 36%

32% - 34%

30% - 32%

28% - 30%

26% - 28%

Size : 10 mm to 150 mm

10 mm to 300 mm

Cr/Fe Ratio : Min 2.5% to 3%

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Chrome concentrate

We are Exporting Chrome Concentrate
Chromite ore can be mined to produce **chromite concentrate**. It can also be crushed and processed. **Chromite concentrate**, when combined with a reductant such as coal or coke and a high temperature furnace can produce ferrochrome. Ferrochrome is a type of ferroalloy that is an alloy in between chromium and iron.



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**EXPORTING
CELESTINE ORE 天青石矿石**

business quickly with us

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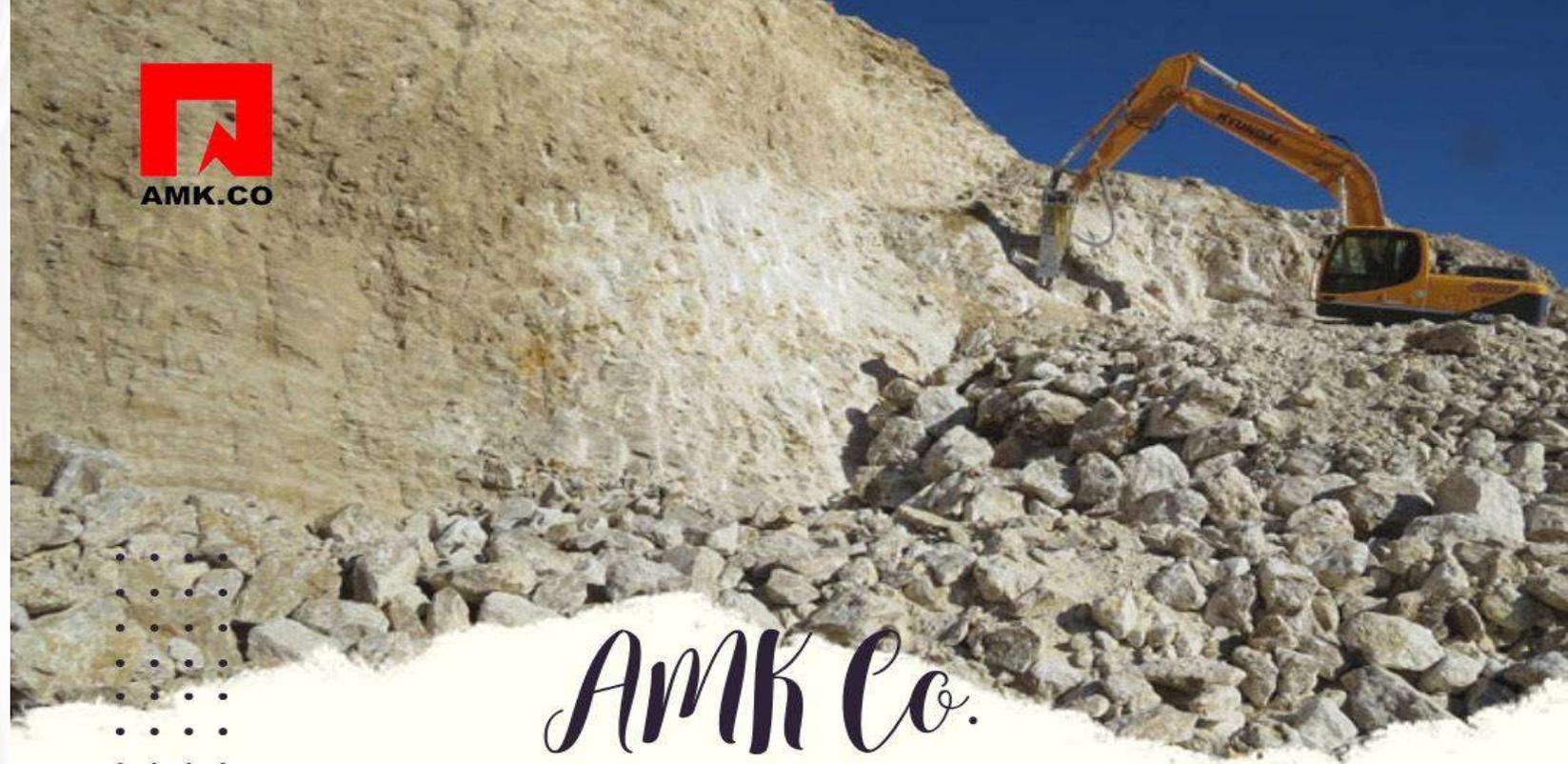
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**CELESTINE
ORE**

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Celestine (SrSO_4) is a soft sulfate mineral that is typically pale blue, white, pale yellow, or colorless. Also called celestite, celestine is an ore mineral for strontium, which is used in flares and fireworks (crimson color), ceramic magnets and even toothpaste for sensitive teeth.

Iron ore

Iron ores are rocks and minerals from which metallic iron can be economically extracted. The ores are usually rich in iron oxides and vary in color from dark grey, bright yellow, or deep purple to rusty red. The iron is usually found in the form of magnetite (Fe₃O₄, 72.4% Fe), hematite (Fe

There are four main types of iron-ore deposits worked currently, depending on the mineralogy and geology of the ore deposits. These are magnetite, titanomagnetite, massive hematite and pisolitic ironstone deposits.



Magnetite iron ore

Magnetite is a rock mineral and one of the main iron ores, with the chemical formula Fe_3O_4 . It is one of the oxides of iron, and is ferrimagnetic; it is attracted to a magnet and can be magnetized to become a permanent magnet itself. It is the most magnetic of all the naturally-occurring minerals on Earth.



Why Us

- Direct Mine
- Successful Shipments
- Direct Exporter
- Best Quality



We Are Exporting Iron Ore **Magnetite**



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Hematite iron ore

Hematite, also spelled as haematite, is a common iron oxide with a formula called Fe_2O_3 and has been widespread in rocks and soils. ... It is mined as the main ore of iron. Varieties include kidney ore, martite (pseudomorphs after magnetite), iron rose and specularite (specular hematite).



EXPORTING IRON ORE HEMATITE

we have great experience of exporting mineral materials to china

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Iron ore concentrate

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Iron ore concentrates are deep beneficiated iron ore products, used for sintering and blast furnace production, as well as pellet production.



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ردیف	عنوان	کمیته	بیشینه
1	(%)Fe	65.5	67
2	(%)FeO	20	26
3	(%)P	0.02	0.08
4	(%)S	0.03	0.1
5	(%)SiO ₂	2.8	3.2
6	(%)Al ₂ O ₃	0.1	0.65
7	(%)CaO	1.3	1.7
8	(%)MgO	0.9	1
9	(%)رطوبت	7	9
10	اندازه (micron)	0-120	



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COLD BRIQUETTED IRON (CBI)

We are exporting CBI to china , Cold Briquetted Iron and Carbon (CBIC) is an innovative product in direct reduction industry that has been introduced with the aim of providing the best solution for passivation of Cold Direct Reduced Iron (CDRI) produced in direct reduction furnaces.



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Hot-briquetted iron (HBI)

Hot-briquetted iron (HBI) is a compacted form of DRI designed for ease of shipping, handling and storage. **Hot direct reduced iron (HDRI)** is DRI that is transported **hot**, directly from the reduction furnace, into an electric arc furnace, thereby saving energy.



HBI stands for hot briquetted iron – porous sponge iron, pressed into briquettes. **HBI** is created by reducing the iron ore with natural gas. **HBI** can be **used as** a pre-material in blast furnaces or electric arc furnaces.

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Iron ore pellets

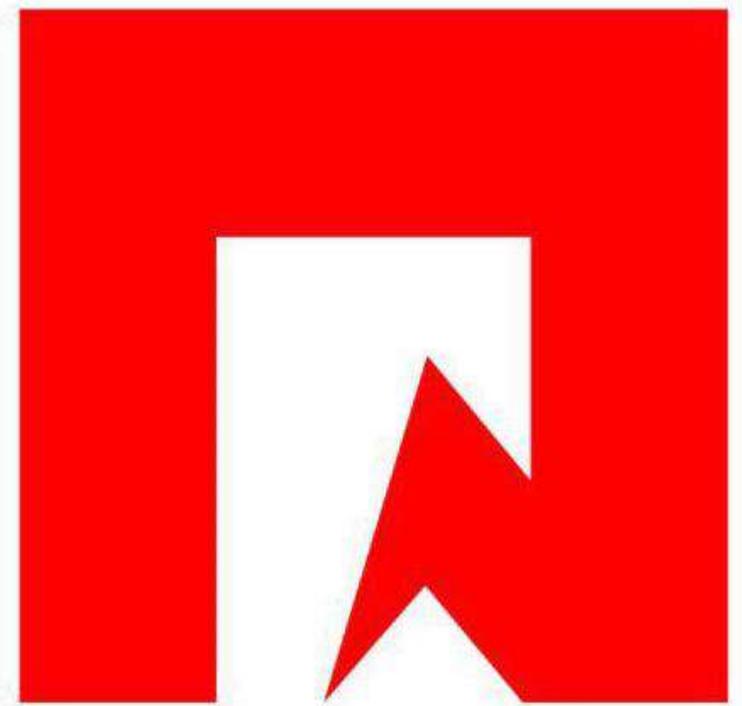
Iron ore pellets are spheres of typically 6–16 mm (0.24–0.63 in) to be used as raw material for blast furnaces. ... The process of pelletizing combines mixing of the raw material, forming the **pellet** and a thermal treatment baking the soft raw **pellet** to hard spheres.



Direct reduced iron (DRI)

Direct reduced iron (DRI), also called **sponge iron**, is produced from the **direct reduction** of **iron ore** (in the form of lumps, pellets, or fines) to **iron** by a **reducing** gas or elemental carbon produced from natural gas or coal.





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We always provide high quality cargo for you.

Coal

Coal is a hard rock which can be burned as a solid fossil fuel. It is mostly carbon but also contains hydrogen, sulphur, oxygen and nitrogen. It is a sedimentary rock formed from peat, by the pressure of rocks laid down later on top.



What is the difference between coking coal and non coking coal?

A **non-coking coal** is that **coal** which on heating in absence of air doesn't form a coherent mass of residue. ... A **coking coal** is that **coal** which on heating in absence of air leaves a solid residue. A **non-coking coal** also leaves a solid coherent residue which may not possess the physical & chemical properties of the coke.

Kaolin clay



WE ARE EXPORTING
KAOLIN CLAY
TO INDIA



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WHITE BENTONITE LUMPS

We are exporting bentonite lumps to India that use in ceramic industrial.

Test Items	SiO2	Al2O3	BaO	CaO	Fe2O3	K2O	MgO	MnO	Na2O
Unit	%	%	%	%	%	%	%	%	%
Test result	68.19	13.21	0.03	1.50	1.21	0.7	3.14	0.03	1.87

Test items	P2O5	SO3	TiO2	Cr2O3	Cu	Pb	Zn	L.O.I
Unit	%	%	%	%	%	%	%	%
Test result	0.08	0.95	0.27	<0.01	<0.01	<0.01	<0.01	15.12

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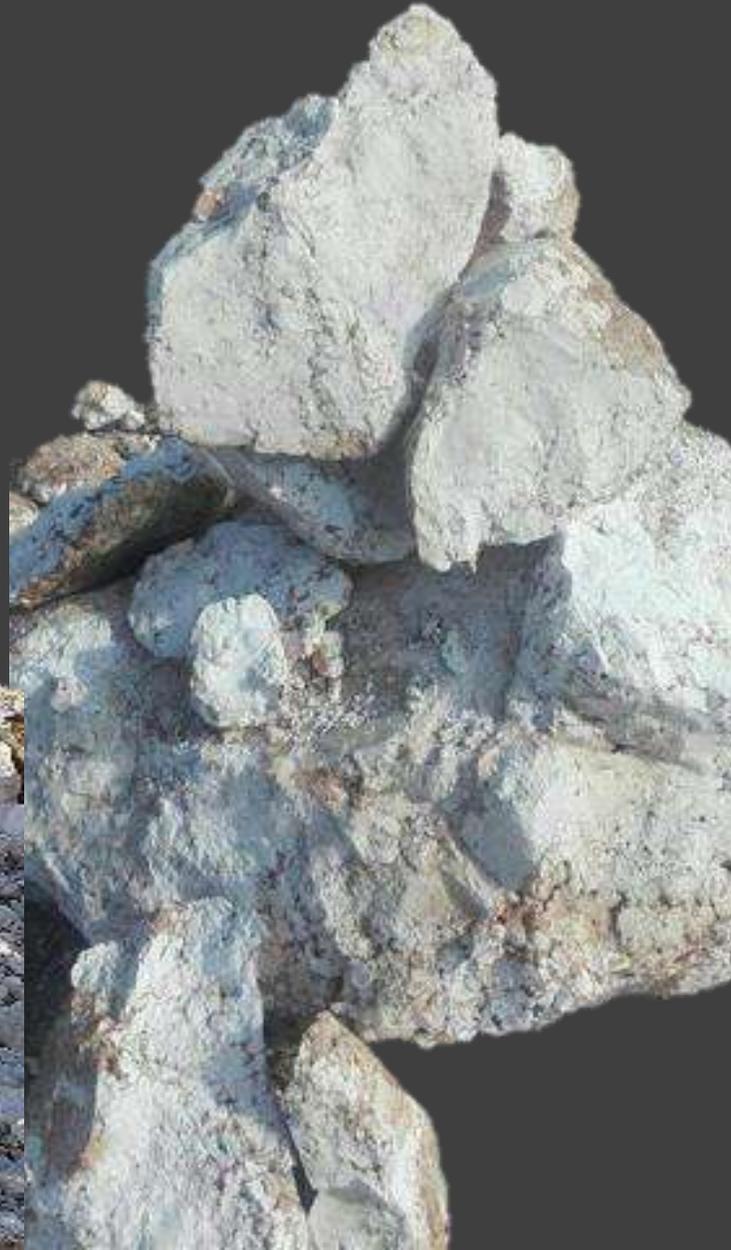
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Magnesite

Magnesite is a magnesium carbonate mineral with a chemical composition of MgCO_3 . It is named after the presence of magnesium in its composition. **Magnesite** usually forms during the alteration of magnesium-rich rocks or carbonate rocks by metamorphism or chemical weathering.



Rock Salt

We are exporting ROCK SALT & SALT mesh size in different colors (orange , pink ,red , white) to India.

Packing : jumbo bags , 25kg Bags

CFR India Main Ports.

We Are
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SALT

Lumps & Mesh size

"Share Your Requirement with the Direct Exporter"

edible & Industrial salt

Delivery:

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Gypsum Ore

Gypsum ore are our main raw material. These are a very soft mineral composed of calcium sulfate dihydrate, with the chemical formula $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$. These are from the mine gypsum used for various purposes.



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WE ARE EXPORTING GYPSUM POWDER

size : Mesh200,Mesh100

packing : 25kg bags , 50kg bags .

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Gypsum powder is a smooth white powder derived by heating gypsum stone, crushing and grinding into a powder. The obtained gypsum powder has numerous applications in construction, agriculture and food industries.

Whiteness	94%
Gypsum mesh	200-250
Packing	25kg or 40kg Bags
Initial setting time	6-8 min
Final setting time	10-12min



Limestone

Limestone is a carbonate sedimentary rock that is often composed of the skeletal fragments of marine organisms such as coral, foraminifera, and molluscs. Its major materials are the minerals calcite and aragonite, which are different crystal forms of calcium carbonate (CaCO_3).



ARVANDMADAN Company has 2 mine of limestone in 30km of bandarabbas.

HIGH QUALITY

PURITY MIN 97%

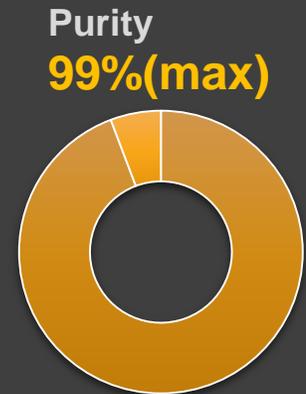


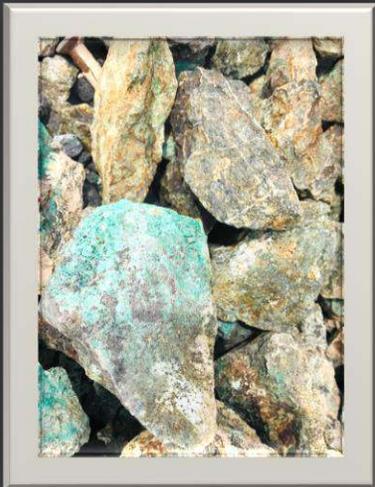
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White Calcium Carbonate

Why is calcium carbonate white?

Paper, Plastics, Paints, and Coatings: Calcium carbonate is the most widely used mineral in the paper, plastics, paints and coatings industries both as a filler – and due to its special white color - as a coating pigment.





Marble

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Marble is a metamorphic rock composed of recrystallized carbonate minerals, most commonly calcite or dolomite. **Marble** is typically not foliated, although there are exceptions. In geology, the term **marble** refers to metamorphosed limestone, but its use in stonemasonry more broadly encompasses unmetamorphosed limestone.

with different colors

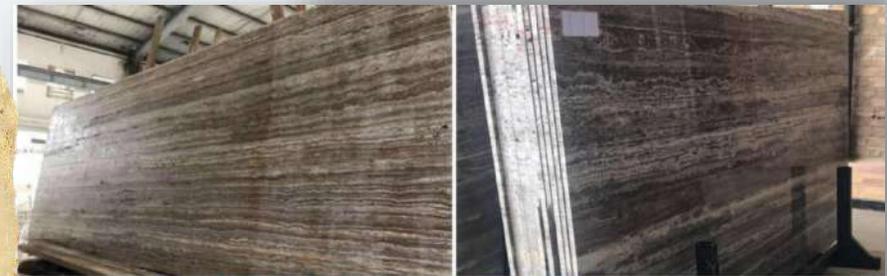


Travertine Grade A (Super)

Travertine is a terrestrial sedimentary rock, formed by the precipitation of carbonate minerals from solution in ground and surface waters, or geothermally heated hot-springs. Similar (but softer and extremely porous) deposits formed from ambient-temperature water are known as tufa.



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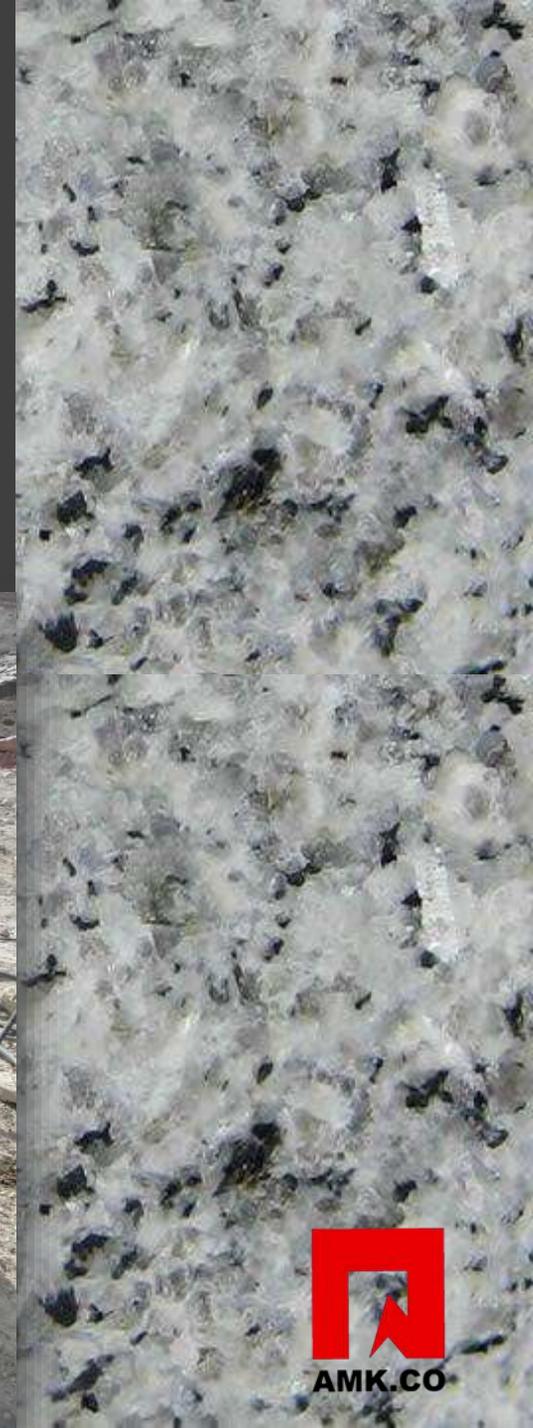


With different colors



Granite

Granite is a light-colored igneous rock with grains large enough to be visible with the unaided eye. It forms from the slow crystallization of magma below Earth's surface. **Granite** is composed mainly of quartz and feldspar with minor amounts of mica, amphiboles, and other minerals.



with different colors

Clinker



Clinker is a nodular material produced in the kilning stage during the production of cement and is used as the binder in many cement products. The lumps or nodules of clinker are usually of diameter 3-25 mm and dark grey in color.

Silicon Dioxide	(SiO ₂)	< 22.0	Litric Weight	L.W	< 1400
Aluminum Oxide	(Al ₂ O ₃)	< 5.5	Free Calcium Oxide	Free CaO	<1.2
Ferric Oxide	(Fe ₂ O ₃)	< 4.2	Lime Saturation Factor	LSF	> 95.0
Calcium Oxide	(CaO)	> 64.0*	Silica Module	SiM	< 2.5
Magnesium Oxide	(MgO)	< 2.2	Alumina Module	AIM	< 1.4
Sulfur Trioxide	(SO ₃)	< 2.0	Tricalcium Silicate	C3S	> 57.0
Potassium Oxide	(K ₂ O)	< 0.8	Dicalcium Silicate	C2S	< 22.0
Sodium Oxide	(Na ₂ O)	< 0.5	Tricalcium Aluminate	C3A	< 8.0
Loss on Ignition	(L.O.I)	< 0.5	Tetracalcium Aluminoferrite	C4AF	< 13.0

Gilsonite

Gilsonite is used in more than 160 products, primarily in dark-colored printing inks and paints, oil well drilling muds and cements, asphalt modifiers, foundry sand additives, and a wide variety of chemical products.



Bitumen

PENETRATION GRADE SPEC

Test item	Methods	Unit	40/50	60/70	80/100
Penetration @ 25 °C	D 5	0.1 mm	40-50	60-70	80-100
Flash point	D 92	°C	>250	>250	>225
Solubility in TCE	D 4	% wt	>99.5	>99.5	>99.5
Specific Gravity @ 25 °C	D 70	kg/m ³	1.01-1.06	1.01-1.06	1.00-1.05
Ductility @ 25 °C	D 113	cm	>100	>100	>100
Softening point	D 36	°C	52-60	49-56	42-52
Loss on heating	D 6	%wt	<0.2	<0.2	<0.2
Drop in penetration after heating	D 5	%	<20	<20	<20

What is bitumen used for?

Most refined bitumen is used in the construction industry. Mainly, it serves its use in paving and roofing applications. 85% of all bitumen is used as a binder in asphalt for roads, runways, parking lots, and foot paths.





We are Exporting
BITUMEN AH-70
To China.

Exporting BITUMEN

BITUMEN 60/70
BITUMEN 85/100
BITUMEN VG30
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We are a professional and best Exporter Of mineral materials and chemicals products in the Middle East.

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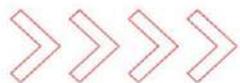
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Urea

The main function of **Urea fertilizer** is to provide the plants with nitrogen to promote green leafy growth and make the plants look lush. **Urea** also aids the photosynthesis process of plants. Since **urea fertilizer** can provide only nitrogen and not phosphorus or potassium, it's primarily used for bloom growth.



Prilled Urea (Grade A)

#	Property	Units	Test Method	Value
1	Nitrogen Content	wt %	ISO 5315	46.3 min.
2	Moisture	wt %	ISO 2753	0.3 max.
3	Biuret	wt %	ISO 2754	1 max.
4	Particle size (1 – 2.84 mm)	%	ISO 8397	90 min.
5	Conditioning Agent	<i>Anti-Cake or Formaldehyde Treated</i>		

Prilled Urea (Grade B)

#	Property	Units	Test Method	Value
1	Nitrogen Content	wt %	ISO 5315	46.3 min.
2	Moisture	wt %	ISO 2753	0.3 max.
3	Biuret	wt %	ISO 2754	1 max.
4	Particle size (1 – 2.84 mm)	%	ISO 8397	90 min.

Granular Urea

#	Property	Units	Test Method	Value
1	Nitrogen Content	wt %	ISO 5315	46 min.
2	Moisture	wt %	ISO 2753	0.5 max.
3	Biuret	wt %	ISO 2754	1 max.
4	Particle size (2 – 4 mm)	%	ISO 8397	90 min.
5	Formaldehyde	wt %	BS-6806-1	0.55 max.



Armor filter stone

rock armor an effective solution to protect coastlines and structures from erosion by the sea, rivers, or streams. ... **Rock Armor works** by absorbing and deflecting the impact of waves before they reach the beach or defended structure.



Zinc ingot

Industrial Metal Supply is one of few metal suppliers who offers **zinc ingot**. Zinc is ideal for a wide range of applications, and is particularly well suited to those that require corrosion resistance. ... Zinc can also be used to make castings or small parts.



Zn 99.995

Dolomite

Dolomite is an anhydrous carbonate mineral composed of calcium magnesium carbonate, ideally $\text{CaMg}(\text{CO}_3)_2$. The term is also used for a sedimentary carbonate rock composed mostly of the mineral **dolomite**. An alternative name sometimes used for the dolomitic rock type is dolostone.

It is **used for** acid neutralization in the chemical industry, in stream restoration projects, and as a soil conditioner. **Dolomite is used as** a source of magnesia (MgO), a feed additive for livestock, a sintering agent and flux in metal processing, and as an ingredient in the production of glass, bricks, and ceramics.



Bauxite

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.





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