



# Arij Global Trading



Let's

**Maximize Value,  
Together**



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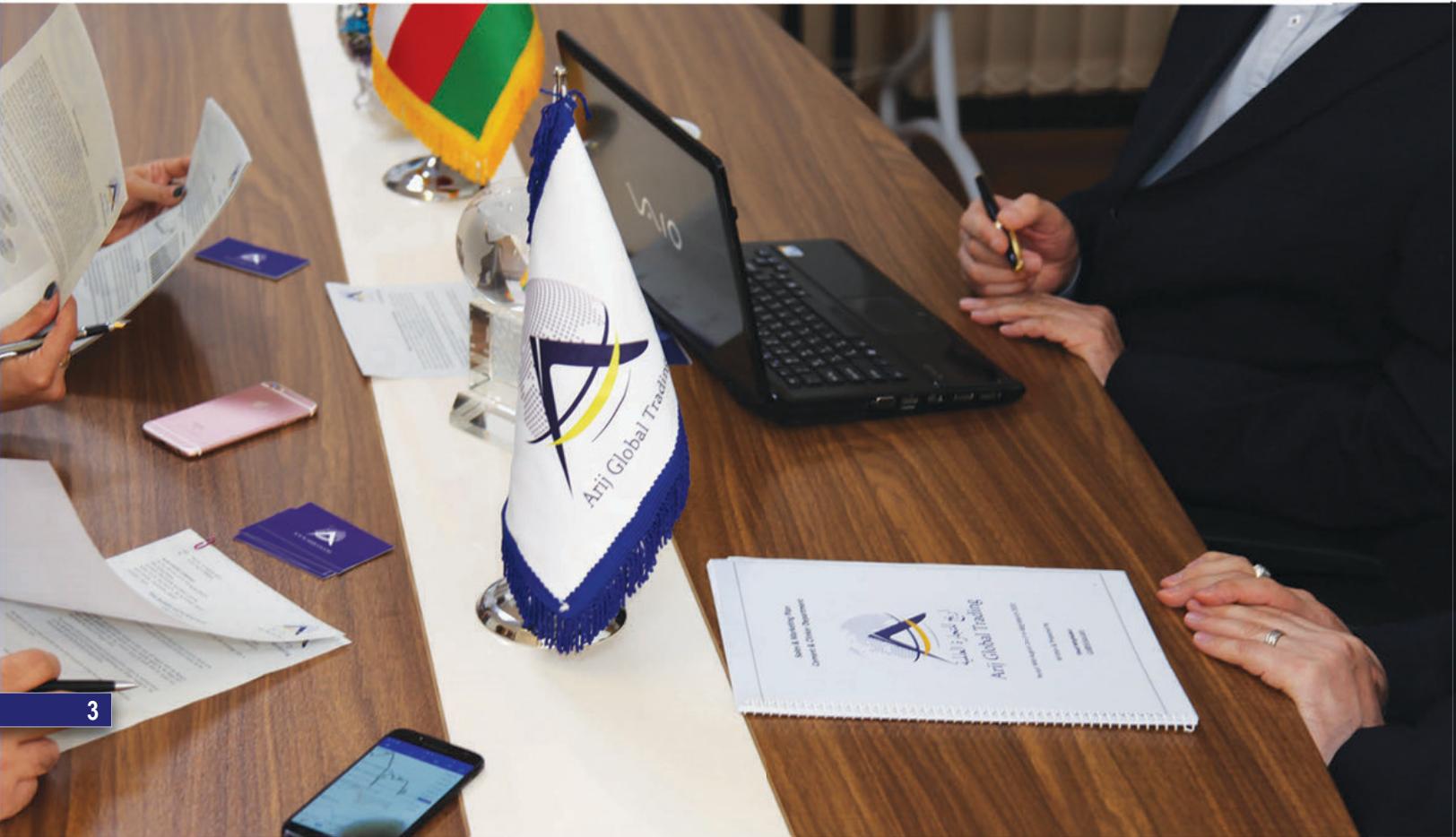


# About us



## Introduction

Amidst the dynamic currents of global trade, Arij emerges as a beacon of unwavering commitment and unparalleled service, catering to the diverse needs of our esteemed clientele with a comprehensive array of iron & steel, bitumen, minerals, cement clinker, petrochemicals and chemicals.



## Let's Start a Trade

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Arij Global Trading

### Dear Valued Partners,

At Arij Global Trading, we pride ourselves on twenty five years of experience in the global commodity trade. Our journey has been built on a foundation of trust, integrity, and a relentless commitment to excellence in everything we do. As a leading player in the iron and steel industry, we have expanded our reach to include petrochemicals, bitumen, cement clinker, and a wide range of minerals, delivering high-quality products to meet the diverse needs of our global clientele.

In today's fast-paced world of international trade, we understand that success is not just about competitive pricing or efficient logistics—it's about building lasting relationships based on reliability and mutual growth. Our client-centric approach drives us to go beyond transactional exchanges. We strive to be your trusted partner, offering tailored solutions that align with your unique goals and ensuring timely, quality deliveries every time.

Our core values—honesty, integrity, and responsibility—serve as the compass guiding our operations. We take pride in being a company where transparency is key, and every decision is made with your best interests in mind. Whether through strategic need assessments, expert logistics, or seamless documentation management, we are committed to providing the highest level of service, with a focus on delivering real value.

As we look to the future, our mission remains clear: to lead the commodity trading industry by demonstrating that ethical business practices and professionalism are the true drivers of long-term success. We aspire to not just be the largest player, but the most trusted and respected one.

Thank you for your continued partnership. We look forward to the opportunities ahead and to contributing to your success.

Warm regards,

CEO, Arij Global Trading

## Leading the Way in Commodity Trade



# Arij Global Trading:

Pioneering Excellence in Commodity Trade

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Arij Global Trading

Arij Global Trading proudly brings over two decades of expertise in the global iron and steel market, offering a diverse portfolio of high-quality products. Our range extends beyond iron and steel to include petrochemicals, bitumen, cement clinker, and a variety of minerals, ensuring we meet the diverse needs of our clients.

However, our focus extends beyond competitive pricing and efficient logistics. We understand that true success is built on long-term partnerships, forged through consistent delivery, valuable market insights, and exceptional service.

### **Our Approach:**

At Arij Global Trading, we focus on understanding our clients' unique needs, from specific product requirements to customized services. This client-centric approach enables us to deliver tailored solutions perfectly aligned with their goals.

Earning and maintaining our clients' trust is our highest priority. Through precise supply chain management and streamlined logistics, we guarantee the timely delivery of high-quality products, offering peace of mind to procurement managers and businesses alike.





In addition, we provide actionable market insights, empowering clients to make well-informed decisions, optimize order timing, and stay ahead of daily market trends. Our mission is to make every transaction efficient and deliver exceptional value, consistently exceeding client expectations.

## Vision

In the competitive realm of commodity trading, we do not seek to be the largest player. Instead, we aspire to be the flagbearers of authenticity, integrity, and commitment within our industry. Our vision is to lead by example, demonstrating that professional and ethical business manner can drive long-term success.

## Mission

Our mission is to deliver maximized value by adhering to three fundamental principles:

- **Deep Product Knowledge:** Leveraging a comprehensive understanding of the technical and commercial nuances of the industries we serve.
- **Providing Best-in-Class Services:** Delivering tailored, innovative, and efficient solutions that meet and exceed client expectations.
- **Client-Centric Service:** Demonstrating unwavering commitment to meeting our clients' needs with professionalism and precision.

We are dedicated to providing exceptional service, setting the benchmark for excellence and reliability in every interaction.

## Values

Our operations are guided by these core values:

- **Honesty and Integrity:** Upholding transparency and truthfulness in all dealings, fostering trust and reliability.
- **Commitment and Responsibility:** Dedicating ourselves to our trading partners and taking accountability for every transaction.
- **Employee Value:** Recognizing our employees as our greatest asset and ensuring they find pride and fulfillment in their work.

## Our Services

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Arij Global Trading

Arij Global Trading is a forward-thinking commodity trading company, strategically positioned in the international trade arena. We bridge the gap between world-class producers and discerning consumers, creating value and fostering growth globally.

What distinguishes us is our steadfast commitment to excellence, reflected in our premium suite of services designed to empower our clients:

### **Strategic Need Assessment**

Delivering bespoke solutions by understanding and anticipating client requirements.

### **Streamlined and Cost-Effective Supply Chain**

Ensuring efficient and profitable connections from producers to end-users.

### **Uncompromising Quality Assurance**

Conducting rigorous inspections at every stage to guarantee superior product quality.

### **Expert Documentation Management**

Simplifying complex international trade documentation with precision and expertise.



## Flexible & Secure Payment Solutions

Offering a wide array of payment options to meet diverse financial needs.

## Optimized Logistics

Delivering punctual, reliable, and meticulously organized logistics tailored to clients' business goals.



## Our Products

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**Arij Global Trading**

At Arij Global Company, we specialize in delivering high-quality products sourced from the foremost mines and refineries in the region. Our tailored logistic services ensure precise and timely fulfillment of all orders. The region is distinguished by its extensive natural resources, including premier zinc, copper, iron, uranium, and lead reserves. With many mineral prospects and active mining operations, it stands out as a leading player in the global mineral industry. Recognized for its significant mineral wealth, the area boasts an impressive array of mineral types and substantial reserves, collectively valued in the hundreds of billions of dollars.

we provide high-quality products sourced from leading mines and refineries in the region. Our customized logistic services are designed to meet our customers' needs, ensuring timely and accurate delivery. Arij Global is committed to delivering not only superior products but also exceptional service, with a guarantee of quality and reliability.

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[www.arijco.com](http://www.arijco.com)

# Product Categories



**Iron & Steel**



**Petrochemicals**



**Bitumen**



**Minerals**



**Cement & Clinker**



**Chemicals**



Products

# Iron & Steel



## Introduction

The global steel and metals industry is poised for transformative changes in 2024 and 2025. The World Steel Association's forecast indicates a nuanced outlook driven by regional dynamics and economic factors.



Introduction to

# Iron & Steel

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Global steel demand is expected to increase by 1.7% to 1.793 billion metric tons in 2024, with a further rise to 1.815 billion metric tons in 2025. India's rapid economic development and urbanization are projected to drive an 8% growth in demand over the next two years. In contrast, China's steel demand, after a 3.3% decline in 2023, is anticipated to stabilize in 2024 but decrease by 1% in 2025 due to reduced real estate investments, partially offset by infrastructure and manufacturing growth. Regional dynamics highlight the complexity of the global market. In Europe, high inflation and tight monetary policies have constrained growth, but a projected 5.3% increase in demand by 2025 offers optimism. However, European producers face high energy costs and the need for cleaner production investments. In contrast, U.S. metals and steel demand are set to rebound after two years of contraction, driven by investment activities and government stimulus, such as the Inflation Reduction Act. The U.S. is expected to see a 3.2% increase in basic metals output in 2024 and a 4.5% rise in 2025, benefiting from lower energy prices compared to Europe and Japan. The global steel and metals industry is on a path of gradual recovery and growth, marked by regional disparities and evolving market dynamics. India's robust demand growth contrasts with China's decline, while Europe and the U.S. navigate unique challenges and opportunities. Sustainability considerations will play a crucial role in shaping the industry's future. As a reliable and seasoned steel exporter, Arij Global Trading is dedicated to addressing your steel product needs. We provide an extensive range of products across the entire steel value chain, encompassing raw materials such as iron ore and sponge iron, semi-finished products like billets, slabs, and blooms, as well as finished products like wire rods and rebars, available in various sizes and standards to cater to our customer's unique requirements. One of our core competencies lies in the supply of Direct Reduced Iron (DRI), also known as sponge iron. We excel in offering both DRI and Hot Briquetted Iron (HBI). DRI, produced from iron ore through a reduction process using reformed natural gas or coal-derived carbon, is particularly beneficial for use in electric arc furnaces (EAF), blast furnaces (BF), and basic oxygen furnaces (BOF).

# Iron Ore Pellets



Arij Global Trading

- **Excellent Alternative to Steel Scrap:** DRI serves as a superior substitute for steel scrap in steelmaking via EAF/IF routes.
  - **Effective Cooling Agent:** It acts as a cooling agent, replacing ferrous scrap in L.D. converters.
  - **Safe and Pure:** DRI is non-pyrophoric and free from tramp materials, ensuring safety and quality.
  - **Enhancing Steel Quality:** It aids in reducing impurities in the EAF process, thereby improving steel quality.
- At Arij Global Trading, we are committed to providing top-notch steel products and exceptional service to meet the varied needs of our customers.

## Iron Ore Pellets at Arij Global Trading

Iron ore pellets are produced from both beneficiated and run-of-mine iron ore fines. Typically, lean iron ores undergo beneficiation processes to increase their iron content, ensuring the highest quality product for our customers.

### Our Commitment to Quality

At Arij Global, we are committed to delivering superior iron ore pellets. With an iron purity exceeding 65%, our pellets adhere to the stringent standards of the steel industry.

## Specification

### Packing:

- Bulk

### MOQ:

- 10 KMT for Bulk Cargo

### Shipment:

- Bulk

### Chemical Analysis

Fe	% 0.2 ± 65
FeQ	Max %1
SiO <sub>2</sub>	Max %4.5
S	Max %0.01
P	Max %0.03
CCS(KG/P)	250

### Phusical Analysis

16-9 mm	1 ± 85%
<6 mm	3% Max



# HBI

## (Hot Brequetted Iron)

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Arij Global Trading developed HBI as a product to address the issues associated with shipping DRI, which can be transported through both containerized and dry bulk methods. Unlike DRI, which requires shipment under an inert atmosphere, HBI only needs surface ventilation during transportation.

A crucial aspect of handling HBI from the production site to the end user is the need to minimize briquette breakage and the generation of chips and fines. This is achieved by reducing the height and number of free-falls drops and the number of transfer points along the entire chain.



## Specification

### Packing:

- Bulk

### MOQ:

- 10 KMT for Bulk Cargo

### Shipment:

- Bulk

### Chemical Analysis

Total Iron(T Fe)	1 ± 88	Sulphur (S)	1 ± 88
Metallic Iron (M Fe)	1 ± 79.5	MgO	1 ± 79.5
Metallization	1 ± 90	CaO	1 ± 90
C	0.9 Ave	V2O5	0.9 Ave
Al2O3	0.3 Ave	TiO2	0.3 Ave
SiO2	3.2 Ave	Min	3.2 Ave
Phosphorous(P)	0.05 Max		0.05 Max

### Physical Analysis

Size (mm)	145 x 55 x 35
Weight of each piece	850

## DRI

(Pelet Direct Reduced Iron/Sponge Iron)



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Arij Global Trading is renowned for supplying premium quality Direct Reduced Iron (DRI) to the South Asia market. Acknowledging the potential risks associated with bulk DRI shipments, we have engineered an innovative packaging solution to cater to customers requiring DRI in smaller quantities. Our advanced packaging methodology ensures the secure handling and transportation of DRI in container shipments. By offering DRI in smaller, containerized quantities, we not only enhance convenience but also significantly mitigate logistical complexities for our esteemed clientele.



**Packing:**

- Bulk
- Jambo bags

**MOQ:**

- 10 KMT for Bulk
- 2000 MT for containers

**Shipment:**

- Bulk
- Containerized

**Chemical Analysis**

Total Iron(T Fe)	1 ± 88	Phosphorous(P)	0.02 ± 0.05
Metallic Iron (M Fe)	1 ± 81	Sulphur (S)	0003 ± 0.009
Metallization	0.5 ± 91	MgO	0.4 ± 2.2
Carbon(C)	1.8 MIN	CaO	0.4 ± 0.8
Al2O3	0.4 ± 0.8	TiO2	0.07 ± 0.15
SiO2	0.7 ± 3.5		

**Physical Analysis**

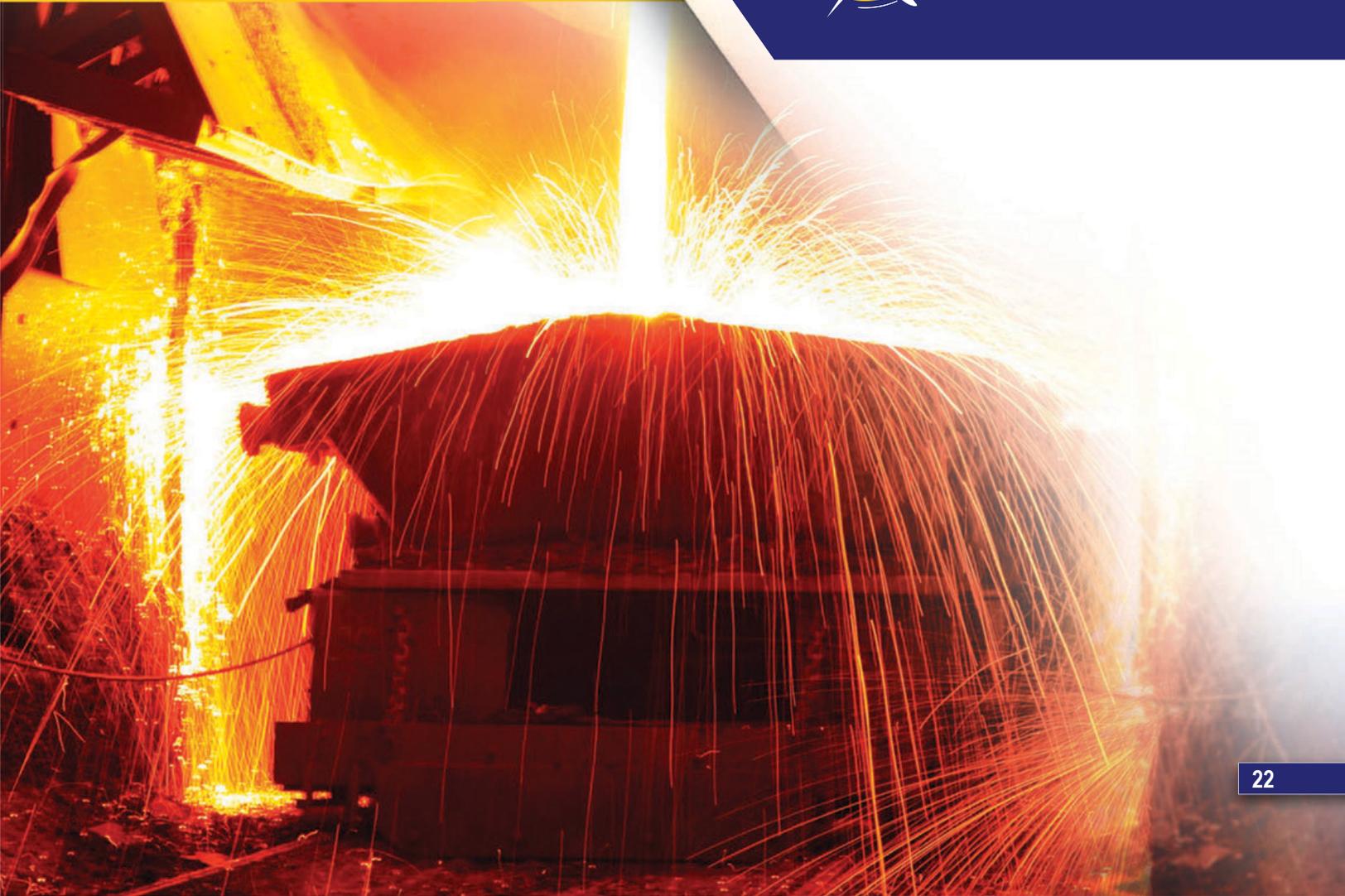
Fine	0-4 mm	%5
	5-4 mm	%4
	>5 mm	%91

# Semi-Finished Products (Billet Bloom Slab)

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**Packing:**

- Wrapping
- Bundle Weight

**MOQ:**

- 500 MT for containers
- 10,000 MT for break bulk

**Shipment:**

- Bulk
- Containerized

Description	Standards & Grade	Dimension(mm)	Length(mm)	Thickness(mm)	Width(mm)
<b>Billet</b>	ASTM A615 Gr60, ASTM A572GR50, Bs 4449 B500B CK 45, RST 2-37 Gost 380-St 3sp, Gost 380St 5sp, ISIRI 3132 Aj 400	100 X 125, 100 X 125 130 X 150, 130 X 150	8000, 6000, 12000	5 ± 195 5 ± 245	1250, 1000
<b>Bloom</b>		180 X 180 200 X 200 260 X 260	4000 6000 8000 12000		
<b>Slab</b>		G3101 SS 400 G3106 SM 400A 1008 St 37.2 St 3-44 St 3-52			

**Associated Standards, Sizes & Classification**

STEEL GRADE	C	MN	SI	P (Max)	S (Max)	V (Max)	AL (Max)	N (Max)			
<b>SWRY 21</b>	0.06	0.11	0.45	0.65	0	0.03	0.03	0.03	-	0.012	90
<b>RSt 37-2</b>	0.1	0.15	0.4	0.65	0.1	0.3	0.03	0.03	-	0.015	90
<b>St 2-44</b>	0.14	0.2	0.55	0.8	0.15	0.4	0.05	0.05	-	-	90
<b>BS4449 B500B</b>	0.16	0.22	0.6	0.95	0.12	0.3	0.05	0.05	0.01	-	90
<b>St 5sp 2</b>	0.28	0.37	0.5	0.8	0.15	0.3	0.04	0.04	-	-	90
<b>St 3sp 2</b>	0.14	0.28	0.4	0.65	0.15	0.3	0.04	0.04	-	-	90
<b>4 sp</b>	0.18	0.27	0.4	0.7	0.15	0.3	0.04	0.05	0.05	-	-
<b>3 SP modified</b>	0.14	0.28	0.5	0.85	0.15	0.3	0.04	0.05	0.05	-	-
<b>4 SP modified</b>	0.28	0.37	0.5	0.85	0.15	0.3	0.04	0.05	0.05	-	-

# Steel Rebar (Reinforcement Bar)

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**Packing:**

- U Shaped folded Bundles: from 500Kgs up to 2MT (length: from 12 up to 24 M)
- Unfolded / Straight Bundles: from 500Kgs up to 2MT (length: from 6 up to 18 M)
- Rounded Coils: from 200 KG up to 2 MT

**Shipment:**

- Break Bulk
- Containerized

**MOQ:**

- 500 MT

**Typical Product's Specification**

Description	Chemical Composition						Mechanical Properties		
	C	SI	MN	P	N	S	Min. Y. P N/mm <sup>2</sup>	Min.UTS N/mm <sup>2</sup>	Elongation (%)
<b>A1</b>	0.05	-	0.05	0.75	0.55	0.22	25	360	240
<b>A2</b>					0.65	0.34	18	500	340
	0.045	0.012	0.045	1.66	0.06	0.29	17	500	350
<b>A3</b>	0.05	-	0.05	1.68	0.65	0.4	16	600	400
	0.045	0.012	0.045	1.56	0.6	0.33	12	600	420
<b>A4</b>	0.05	-	0.05	1.88	0.65	0.43	10	630	500
	0.045	0.012	0.045	1.88	0.6	0.35	8	690	520
Bar & Rebar Range		Local Designation		GOST	ASTM		JIS		
Plain		S240		A1	-		SR24		
Deformed		AJ340-350		A2	A615G40		SD35		
Deformed		AJ400-420		A3	A615G60		SD40		
Deformed		AJ500-420		-	A615G75		SD50		

# Steel Wire Rod

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**Packing:**

- Rounded Coils: from 200 KG up to 3 MT

**MOQ:**

- 500 MT

**Shipment:**

- Break Bulk
- Containerized

**Typical Product's Specification**

Standards & Grades		Chemical Compositions					Ø(mm)
SAE	RM (MPa)	C	Si	Mn	P	S	
1006	370 Max	0.08 Max	0.15 Max	0.70-0.30	0.025Max	0.025Max	5.5 - 16
1008	420 Max	0.10	0.15 Max	0.70-0.30	0.025Max	0.025Max	
1010	440 Max	0.12	0.15 Max	0.70-0.30	0.025Max	0.025Max	
1012	470 Max	0.14	0.30-0.15	0.70-0.30	0.025Max	0.025Max	
1015	540 Max	0.18	0.30-0.15	0.70-0.30	0.025Max	0.025Max	
<b>Medium Carbon Wire Rods</b>							
<b>C-C</b>		0.10-0.05	0.20-0.05	0.70-0.30	0.025	0.025	AL=0.04 5.5 - 16
<b>C10C</b>		0.12-0.08	0.20-0.05	0.70-0.30	0.025	0.025	
<b>18Mnb4</b>		0.2-0.16	0.30 Max	1.20-0.90	0.025	0.025	
<b>20Mnb4</b>		0.23-0.18	0.30 Max	1.20-0.90	0.025	0.025	
<b>23Mnb4</b>		0.25-0.20	0.30 Max	1.20-0.90	0.025	0.025	
<b>B38 2</b>		0.40-0.35	0.30 Max	.90-0.60	0.025	0.025	
<b>Cr 41 4</b>		0.45-0.38	0.30 Max	0.90-0.60	0.025	0.025 Cr & Mo	
<b>42CrMo4</b>		0.45-0.38	0.30 Max	0.90-0.60	0.025	0.025 0.9-1.2	
<b>High Carbon Wire Rods</b>							
<b>En4-1-1006</b> (JIS G 3506)	SWRH 55B	0.57 Max	0.30-0.15	0.80-0.40	0.025	0.025	5.5 - 16
	SWRH 62B	0.65 Max	0.30-0.15	0.80-0.40	0.025	0.025	
	SWRH 67B	0.70 Max	0.30-0.15	0.80-0.40	0.025	0.025	
	SWRH 72B	0.75 Max	0.30-0.15	0.80-0.40	0.025	0.025	
	SWRH 82B	0.84 Max	0.30-0.15	0.80-0.40	0.025	0.025	
<b>Production of Electrodes &amp; Welding Rods</b>							
<b>GIS G 3503</b>	SWRY11	0.09 Max	0.03 Max	0.65-0.35	0.020	0.023	To 5.5 16
ISO 14171	S2	0.15-0.7	0015 Max	0.12-0.80	0.025	0.025	
DIN 8559	SG2	2.14-0.7	1.00-0.70	1.6-1.30	0.025	0.025	

## Ferro Chrome (Ferro-Chromium)

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Ferro chrome, also known as ferro-chromium, stands as a cornerstone in the realm of steel production, revered for its unique composition of chromium and iron. As an indispensable alloy additive, ferro-chrome plays a pivotal role in augmenting the properties of steel, elevating its performance and durability across various applications.

### High Carbon Ferro Chrome

High Carbon Ferro Chrome, crafted from chromite and silicon as slag flux, embodies a solid solution of chromium, iron, and carbon. This alloy boasts exceptional strength, corrosion resistance, wear resistance, high-temperature resistance, and oxidation resistance, making it a preferred choice in the steel industry.

HS Code:72024190

**Packing:**

- Jumbo bag
- Bulk in container

**Shipment:**

- High carbon
- Medium carbon
- low carbon

**Ferro Chrome Characteristics**

Composition		Size
Element	%	(90% mm)
Cr %	65.00% min	10 - 50 mm
Si %	2.00% max	10 - 50 mm
C %	8.00% max	
P %	0.03% max	
S %	0.05% max	

**\*\*\* Remark: Chemical Composition, Size and Packing can be adjusted by customer requirement \*\*\***

Ferro Chrome, with its unparalleled properties and versatility, serves as a catalyst for innovation and progress within the steel industry. Whether enhancing the strength of structural components or improving resistance to harsh environmental conditions, Ferro Chrome remains at the forefront of technological advancements, driving efficiency and reliability across diverse sectors.

# Ferrosilicon



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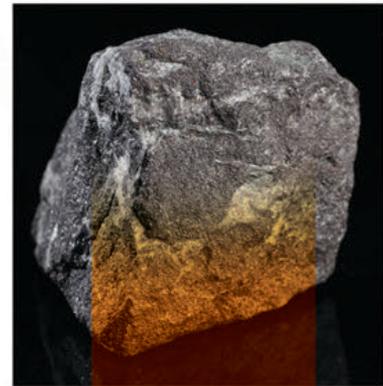
Ferrosilicon is an iron alloy composed of iron and silicon, commonly used as a deoxidizer in steelmaking, and is an important alloy variety in the smelting industry.

- Operating deoxidizer in steel manufacturing
- The magnesium ferrosilicon alloys for the production of ferro manganese and silicon
- For the production of graphite electrodes used in welding
- That increase in the production of steel and iron alloy of silicon high silica
- Factors modifiers in graphite cast iron (spherical knotted sheets)

**Hs Code: 72022100**

## Ferrosilicon comes in various types, including:

- Low-carbon and Ultra-low-carbon Ferrosilicon: \*\* Prevent the reintroduction of carbon during the production of stainless steel and electrical steel.
- Low-titanium (High-purity) Ferrosilicon: Employed to prevent the formation of TiN and TiC inclusions in electrical steel and specialized steels.
- Low-aluminum Ferrosilicon: Used to prevent the formation of hard Al<sub>2</sub>O<sub>3</sub> and Al<sub>2</sub>O<sub>3</sub>-CaO inclusions in various steel types.
- Special Ferrosilicon: Tailor-made products containing additional alloying elements for specific applications.



Melting point (°C)	Bulk density (g/cm <sup>3</sup> )			Special Weight (g/cm <sup>3</sup> )	
1240 - 1350	1.6			3.2	
<b>Grading (mm):</b>	(10-100)	(60-80)	(10-60)	(3-10)	(0-3)

### Major Applications:

- ▶ Serves as an operating deoxidizer in steel production.
- ▶ Enhances the production of high-silica steel and iron alloy.
- ▶ Acts as modifiers in graphite cast iron for spherical nodular graphite.
- ▶ Utilized in magnesium ferrosilicon alloys for ferromanganese and silicon production.
- ▶ Plays a role in producing graphite electrodes used in welding.

### Packing:

- ▶ Jumbo Bag
- ▶ Bulk in container
- ▶ FeSi (0-3) mm packaged in 10kg bags



Products

# Petrochemical

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## Polyethylene Overview

Polyethylene is the most widely used type of consumer plastic, found in a variety of everyday materials. As a thermoplastic, it can be repeatedly melted into a liquid and cooled back into a solid. Different processing conditions yield various grades of polyethylene, allowing it to serve diverse purposes—from flexible cling wrap to rigid bollard post covers.



# Polyethylene



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One of the polyethylene's most attractive properties is its durability, as it resists fading, chipping and many chemical substances such as acids and caustic solutions. Additionally, polyethylene is an excellent electrical insulator, maintaining its properties in extremely cold conditions while being meltable at high temperatures.

## ► Polyethylene Global production

As of recent estimates, the global production capacity of polyethylene stands at approximately 120 million metric tons per year. This massive capacity is supported by a diverse array of production facilities distributed across the globe, particularly in regions with abundant natural resources and robust petrochemical industries.

## ► Middle East's Contribution

The Middle East plays a crucial role in the global polyethylene market, contributing significantly to the overall production capacity. This region, rich in natural gas resources that serve as a primary feedstock for polyethylene production, accounts for approximately 20-25% of the world's total polyethylene capacity. This translates to around 24 to 30 million metric tons annually. Countries such as Saudi Arabia, Iran and the United Arab Emirates are key players in this market, with substantial investments in petrochemical infrastructure and technology.

## ► Regional Production Highlights

**Asia-Pacific:** The Asia-Pacific region, led by China, is a major hub for polyethylene production, driven by high demand in domestic markets and robust industrial growth. China alone contributes a significant portion of the global capacity.



**North America:** The United States is a prominent producer of polyethylene, benefiting from shale gas developments that provide an inexpensive and abundant source of ethylene, the primary raw material for polyethylene.

**Europe:** European countries also contribute to global polyethylene production, although their share is smaller compared to Asia-Pacific and North America, partly due to stricter environmental regulations and higher production costs.

### ► **Outlook**

The demand for polyethylene continues to grow, driven by its wide-ranging applications in packaging, construction, automotive, and consumer goods. This ongoing demand ensures that production capacities are likely to expand, particularly in regions with cost advantages and access to raw materials. With advancements in polymer technology and increasing investments in sustainable production methods, the global polyethylene industry is poised for continued growth and innovation.

### ► **Applications**

Polyethylene, the most common thermoplastic in consumer products, has a wide range of applications, including:

**Food Packaging Material:** Polyethylene's resistance to water absorption and chemical damage makes it ideal for food packaging applications such as bags and pouches.

**Buckets, Bottles, and Bins:** Its hardness and durability under stress make polyethylene suitable for various consumer products.

**Piping Applications:** PE pipes are easy to install, lightweight, flexible, corrosion-free, and can last up to 100 years.

**Spinning:** PE can be slit or spun into monofilament suitable for fishing nets, ropes, and agricultural nets.

**Films and Bags:** Polyethylene is used in cast films, shrink films, stretch films, freezer bags, and agricultural bags.

# HDPE



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- ▶ **HDPE** High-density polyethylene (HDPE) is characterized by its high density and the structure of its molecular chains, which lack branching. This structure results in products with high tensile strength and durability but lower flexibility compared to Low-Density Polyethylene (LDPE). All polyethylene products are packaged in 25kg bags, palletized, and shrink-wrapped for efficient transportation and storage.
- ▶ **HDPE Film** High-Density Polyethylene Film is known for its durability and adaptability, making it a versatile choice across various industries. Its unique composition makes it ideal for numerous applications, including disposable gloves, freezer bags, carrier bags, and garbage bags.

Typical Specification					
MFI (g/10min)	Density(g/cm3)	Tensile Strength (MPa)		Tensile Strength (MPa)	
		MD	TD	MD	TD
0.04 ~ 10	0.946 ~ 0.952	45 ~ 55	40 ~ 55	200 ~ 250	450 ~ 800

- ▶ **HDPE Blow Molding** HDPE Blow Molding is distinguished by its inherent rigidity, high chemical resistance, and excellent balance of stiffness and Environmental Stress Cracking Resistance (ESCR). These attributes make it well-suited for applications such as bottles, containers, and pharmaceutical products.

Typical Specification			
MFI (g/10min)	Density(g/cm3)	Tensile Strength (MPa)	Impact Strength (mj/mm2)
		up to 110 lit ... 110	9 ~ 22
23 ~ 10 (21.6 kg)	0.954 ~ 0.955	5 ... up to 10 lit	

- **HDPE Injection** HDPE Injection grade is a polyethylene with good stiffness and processability. This grade is suitable for applications requiring a balance between ease of flowability and mechanical properties, making it ideal for toys, crates, caps and closures, housewares, and pallets.

Typical Specification			
MFI (g/10min)	Density(g/cm3)	Flexural Modulus (MPa)	Impact Strength (J/m)
5 ~ 28 (21.6 kg)	0.952 ~ 0.962	1500 ~ 1200	21 ~ 55
			22

- **HDPE Pipe** Polyethylene grade PE100 represents one of the latest and highest quality polyethylene materials. Engineered to withstand extreme pressures with minimal thickness, PE100 exhibits excellent corrosion resistance, suitable flexibility, lightweight construction, and resilience to earthquakes. It is widely used in gas and water distribution networks, as well as waste and sewer infrastructure.

Typical Specification		
MFI (g/10min)	Density (g/cm3)	Hydrostatic Strength (hr)
0.22 (21.6 kg)	0.948 ~ 0.957	5000

- **HDPE Monofilament** This HDPE grade is specially designed for monofilament applications, offering a good balance of mechanical strength and processability. It is well-suited for various applications, such as: Rope, Stretched Filament, Tarpaulin, Weed Mat, Vermi Bed and Shaed Net.

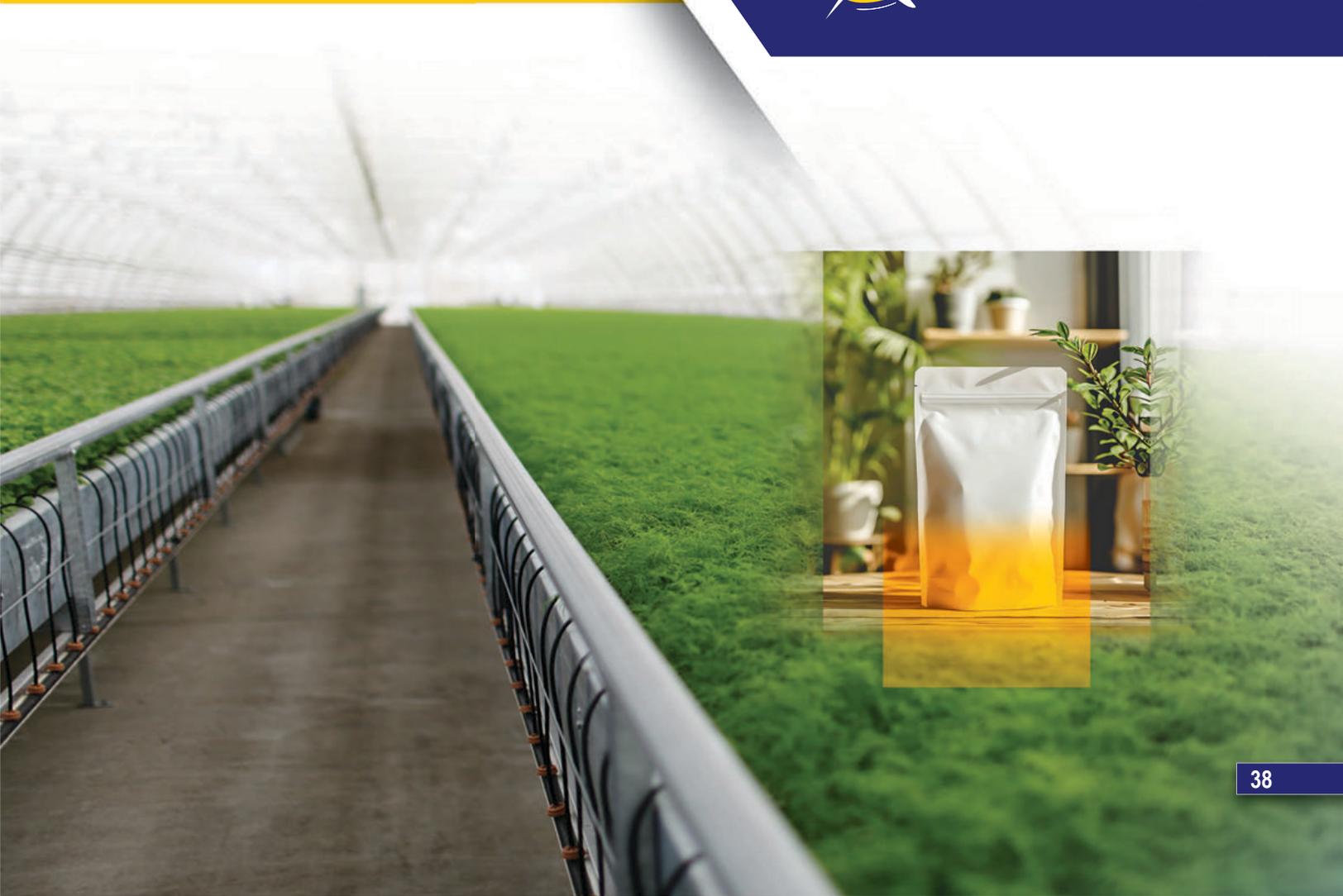
Typical Specification			
MFI (g/10min)	Density (g/cm3)	Flexural Modulus (MPa)	Tensile strength @ Break/Yield
0.8 (2.16 kg)	0.954	1100	39/24

**LDPE**

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**Arij Global Trading**



► **LDPE** Low-density polyethylene (LDPE) is a durable plastic characterized by numerous side branches in its molecular structure, resulting in a lower density. This gives LDPE a soft feel while maintaining considerable strength. Additionally, LDPE is water-repellent, an excellent insulator, and resistant to acids. These properties make LDPE film highly suitable for packaging material. Furthermore, it is safe for contact with food, making it ideal for use in the food industry.

► **LDPE Film** LDPE film grade exhibits excellent optical properties, toughness, and high melt strength, ensuring good bubble stability during blown film extrusion. These qualities make it an ideal choice for producing blown, packaging, and laminating films. LDPE film is widely used in various applications, including Agricultural Films, Bags and Pouches, Liners, Shrink films, Stretch Hoods and Mulches.

Typical Specification					
MFI (g/10min)	Density(g/cm3)	Tensile Stress @ Break (MPa)		Tensile Strain @ Break (%)	
		MD	TD	MD	TD
0.25 ~ 4 (2.16 kg)	0.919 ~ 0924	17 ~ 35	15 ~ 20	100 ~ 700	500 ~ 700

► **LDPE Injection** LDPE injection grade provides a unique combination of consistent processability, flexibility, and toughness. This grade is designed for applications that require a balanced blend of flow properties and mechanical strength. It is ideal for use in products such as Toys, Household items, and Clamping Lids.

Typical Specification			
MFI (g/10min)	Density (g/cm3)	Tensile Modulus (MPa)	Impact Strength (KJ/m2)
22 (2.16 kg)	0.919	175	86

# LLDPE

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Arij Global Trading



► **Linear low-density polyethylene** LLDPE has gained popularity for its superior tensile strength, impact resistance, and puncture resistance compared to its low-density polyethylene (LDPE) counterpart. This allows converters to produce thinner films without compromising strength, leading to material savings and cost reductions. LLDPE's excellent toughness has also expanded its application areas, including frozen food packaging, agricultural films, tapes, shrink film, lamination and protection films, monolayer and multilayer blown films for liner bags, and stretch cling films.

Typical Specification					
MFI (g/10min)	Density(g/cm3)	Tensile Strength @ Break (MPa)		Tensile Strength @ Yield (MPa)	
		MD	TD	MD	TD
0.6 ~ 3 (2.16 kg)	0.920 ~ 0.924	36 ~ 47	28 ~ 38	10 ~ 12	11 ~ 13



# Polystyrene



Arij Global Trading

- ▶ **Polystyrene** Polystyrene is a versatile thermoplastic polymer known for its lightweight, rigid, and transparent properties. It is widely used in various industries due to its ease of processing, affordability, and ability to be molded into a wide range of shapes and forms. Polystyrene is prized for its excellent insulation properties, making it ideal for packaging materials, disposable food containers, and insulation panels in construction. It is also used in consumer goods such as household appliances, electronic components, and toys. Additionally, polystyrene's clarity and ability to hold intricate designs make it a popular choice for packaging electronics and medical equipment. Its versatility, coupled with its cost-effectiveness and recyclability, continues to make polystyrene a valuable material in modern manufacturing and packaging applications. As of the latest data available, global production capacity for polystyrene (PS) is estimated to be around 22-24 million metric tons annually. This capacity is distributed among various regions globally, with significant production occurring in Asia, particularly in China, followed by North America and Europe. Production capacities can vary over time based on market demand, technological advancements, and economic factors influencing manufacturing capabilities.
- ▶ **GPPS** General Purpose Polystyrene (GPPS) is renowned for its exceptional transparency and glossy appearance. It boasts high tensile strength, water resistance, and a transparent color profile. GPPS also offers thermal insulation, resistance to inorganic chemicals, rigidity, ease of handling, and high optical quality. Its good dimensional stability further enhances its suitability for applications such as disposable cups, food containers, and injection molding.

### Typical Specification

MFI (g/10min)	Vicat Softening Point (°C)	Tensile Modulus (MPa)	Tensile Strength @ Break MPa
20 ~ 1.7 (5 kg)	90 ~ 104 (1kg/50°C)	3100 ~ 4710	42 ~ 58

► **EPS** Expanded Polystyrene (EPS), also known as poliexpan or white cork, is a lightweight foamed plastic material primarily composed of 98% air. Derived from polystyrene, EPS exhibits high mechanical strength, moisture resistance, and excellent insulating and shock-absorbing properties. It is widely used in the production of low-, medium-, and high-density blocks. EPS finds extensive application in industries where lightweight, durable, and thermal insulating materials are required.

### Typical Specification

MFI (g/10min)	Bead size (mm)	Tensile Modulus (MPa)	Expanded Density Kg/m <sup>3</sup>
1.7 ~ 20 (5 kg)	0.28 ~ 2.8	3100 ~ 4710	18 ~ 24

► **HIPS** High-impact polystyrene (HIPS) is produced by blending standard Polystyrene (GPPS) with rubber, which is grafted onto the polymer. This additive enhances HIPS with superior mechanical properties compared to GPPS, including increased impact strength, dimensional stability, and thermal resistance. HIPS is utilized in various applications such as packaging containers, refrigerator doors and cabinet liners, cups, computer keyboards, and toys.

### Typical Specification

MFI (g/10min)	Tensile Modulus (MPa)	Izod Impact (KJ/m <sup>2</sup> )
3.5 ~ 15 (5 kg)	1600 ~ 3110	3 ~ 13

# ABS

(Acrylonitrile butadiene styrene)

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Arij Global Trading





► **Acrylonitrile butadiene styrene (ABS)** is a widely used thermoplastic polymer favored for injection molding applications. This engineering plastic is renowned for its cost-effectiveness and versatility in processing methods such as injection molding, extrusion, and thermoforming. ABS offers a host of beneficial properties, including high impact resistance, structural strength, stiffness, chemical resistance, and excellent performance across a wide temperature range. It also exhibits superior electrical insulation properties and is easy to paint and glue. Finished ABS products feature exceptional dimensional stability and a glossy surface finish, making it ideal for manufacturing a range of items including home appliances, automotive parts, components for the electrical industry and medical equipment.

As of the latest available data, global production capacity for Acrylonitrile Butadiene Styrene (ABS) is estimated to be approximately 10-12 million metric tons annually. ABS production is significant in regions such as Asia, particularly in China, where a substantial portion of global ABS capacity is located. Other key producing regions include North America and Europe, contributing to the overall global supply of ABS resin. Production volumes can vary based on market demand, technological advancements, and economic conditions impacting manufacturing capacities.

# Urea



Arij Global Trading

## Typical Specification

MFI (g/10min)	Vicat Softening (°C)	Izod Impact (KJ/m2)
1.5 ~ 3 (200°C/5 kg)	92 ~ 100 (5kg/50°C)	22 ~ 30

► **UREA** Like most commercial nitrogen fertilizers, urea is produced from anhydrous ammonia (NH<sub>3</sub>). Urea, a white crystalline solid with 46% nitrogen content, is widely utilized in agriculture as a fertilizer and as a fuel additive for diesel engines. As of the latest available data, the global production capacity for urea is estimated to be around 200-220 million metric tons annually. Urea production capacity is spread across numerous countries with significant production occurring in regions such as the Middle East, particularly in countries like Saudi Arabia, Qatar, and Iran, as well as in China, Russia, and North America. Production capacities can vary based on market demand, technological advancements, and economic factors influencing manufacturing capabilities in each region. Urea is available in two forms: prilled and granular.

**Fertilizer Grade:** Coated Prilled/Granular with a maximum of 0.4% formaldehyde. Prilled urea typically ranges in particle size from 1 to 2.84 mm, while granular urea ranges from 2 to 4 mm. Differences between them also include variations in iron (Fe) and chromium (Cr) content.

**Automotive Grade Urea (AGU):** AGU is a specialized form of prilled urea that must be uncoated, not treated with formaldehyde, and contains a maximum of 100PPM formaldehyde and very low biuret content. AGU, also known as Diesel Exhaust Fluid (AdBlue), is used in vehicles equipped with Selective Catalytic Reduction (SCR) systems to reduce harmful emissions from diesel engines.

► **Packaging Options:**

- Bulk
- 1 MT Jumbo Bags in Break Bulk
- 1 MT Jumbo Bag containerized
- 50kg bags containerized



Property Coated	Unite	Test Method	Spec. Value
Urea	%wt	-	Min 98.3
N2 Content	%wt	ISO 5315	Min. 46
Biuret Content	%wt	ISO 8397	Max. 1.0
Moisture	%wt	ISO 2753	Max. 0.5
Formaldehyde	%wt	BS 6806-1	Max. 0.55
Particle Size (2~4 mm)	%	ISO 8397	Min. 90

Property Uncoated AGU	Unite	Test Method	Spec. Value
Urea	%wt	-	Min 98.7
N2 Content	%wt	ISO 5315	Min. 46
Biuret Content	%wt	ISO 2754	Max. 1.0
Moisture	%wt	ISO 2753	Max. 0.3
Particle Size (1~2.84 mm)	%wt	ISO 8397	Min. 90



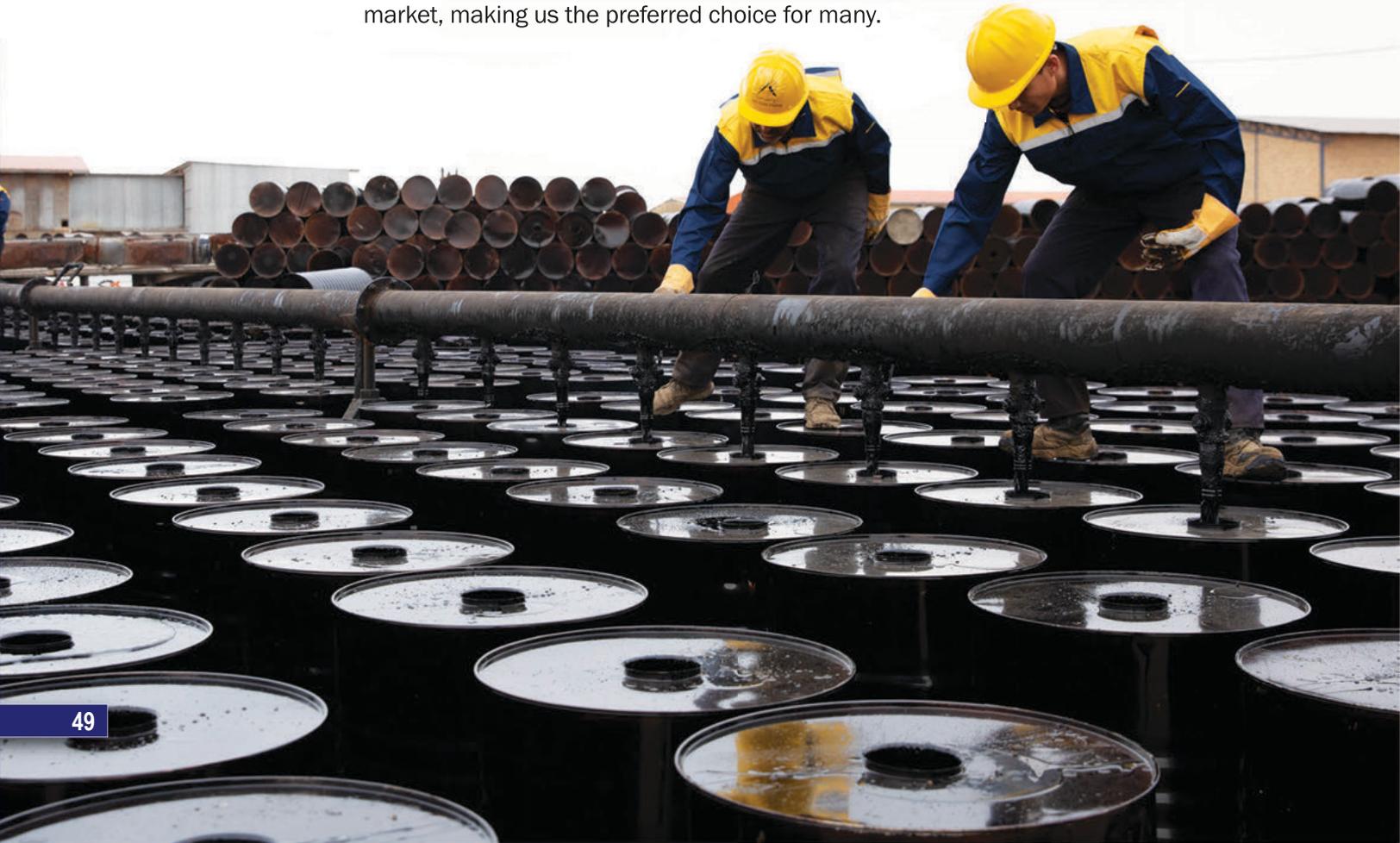
Products

# Bitumen

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## Introduction

With a legacy of excellence and a steadfast commitment to quality, we deliver premium bitumen products tailored to the diverse needs of our global clientele. Renowned for our extensive crude oil reserves and state-of-the-art refinery technology, we have positioned ourselves as a key player in the global bitumen market, making us the preferred choice for many.



## Petroleum Bitumen

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Arij Global Trading

Our strong, long-standing relationships with manufacturers and refiners across the Gulf region enable us to offer a broad range of bitumen products. This flexibility allows our customers to select the bitumen that best suits their specific climate and needs. Additionally, we provide comprehensive logistics solutions, ensuring a streamlined delivery process and enhancing our service offerings based on the destination. Our extensive experience and strong industry relationships ensure the fastest and most cost-effective delivery of bitumen. Over the years, we have successfully exported bitumen in various packaging formats to countries across the Middle East, Asia, CIS, and Africa. Our proven track record in these regions underscores our ability to meet diverse customer needs with efficiency and reliability.

### Inspection and Quality Control

Our commitment to delivering high-quality bitumen products is upheld through rigorous inspection and quality control processes. At our state-of-the-art factory, every batch of bitumen undergoes thorough testing in our fully equipped laboratory to ensure it meets the highest industry standards. Our in-house lab is equipped with advanced testing equipment, operated by experienced professionals who meticulously monitor each stage of production. In addition to our internal quality control measures, we also engage SGS, a world-renowned inspection company, to conduct independent inspections at the Port of Loading (POL). This dual-layered approach guarantees that our products not only comply with international quality standards but also meet the specific requirements of our clients. By combining our internal expertise with the impartial verification provided by SGS, we ensure that our customers receive only the best quality bitumen products, delivered with confidence and reliability.



# Petroleum Bitumen



Arij Global Trading

We provide a diverse selection of premium bitumen products, designed to meet the specific needs of various industrial applications. Our product line includes:

## Bitumen Grades We Offer:

- ▶ **Penetration Grade Bitumen:**
  - Application: Road construction and maintenance
  - Benefits: Ensures durability and longevity
- ▶ **Viscosity Grade Bitumen:**
  - Application: Situations requiring specific flow characteristics
  - Benefits: Provides consistent performance
- ▶ **Performance Grade Bitumen:**
  - Application: Extreme climatic conditions
  - Benefits: Delivers superior performance
- ▶ **Oxidized Bitumen:**
  - Application: Roofing, waterproofing, and industrial uses
  - Benefits: Highly suitable for protective and sealing purposes
- ▶ **Cutback Bitumen:**
  - Application: Road construction and repair
  - Benefits: Offers excellent adhesion and durability
- ▶ **Emulsion Bitumen:**
  - Application: Surface dressing, tack coats, and road maintenance
  - Benefits: Ideal for various road applications with ease of use

## Bitumen Packaging:

Bitumen is a highly viscous liquid, making its packaging crucial for factors such as cost, environmental impact, storage, and shipping. Bitumen packaging is classified into three main types: new steel drums, jumbo bags, and bulk. The choice of packaging depends on the specifications, volume, and weight of the bitumen, ensuring the most efficient and effective method is selected.

New Steel Drums	Jumbo Bag	Bitutainer
150, 180, 200, 220 Kg	1000 Kg	20,000 Lit

## Minimum Order Quantity (MOQ):

Bulk Cargo	Bitutainer
7,000 metric tons	100 metric tons

## Shipment Options:

- Bulk
- Break Bulk
- Containerized
- Railway
- Transit Truck





# Minerals

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## Introduction

Minerals are valuable natural resources that contribute significantly to economic growth and reserves of minerals such as bauxite, copper, gypsum, limestone, silica, and iron ore. These mineral resources offer a wide range of potential applications and contribute to various industries. For instance, copper is extensively used in electrical wiring and equipment



## Introduction to **Minerals**

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**Arij Global Trading**

manufacturing, while chromite is a crucial component in stainless steel production. Limestone and gypsum are essential for the construction industry, and silica finds applications in glass manufacturing and semiconductor production. In terms of infrastructure, imports, and exports enjoy the benefits of several ports and related facilities along the coast, equipped with equipment for exports. With access to abundant and diverse mineral resources, Arij Global Trading Company has established itself as a premier supplier and exporter of high-grade minerals to various destinations across the globe. Our extensive reach extends to Asia, Africa, and Europe, where we cater to the growing demand for top-quality minerals. As a trusted supplier/exporter in Oman, we take pride in sourcing and delivering high-purity minerals from our region's natural and rich deposits. With our commitment to excellence and customer satisfaction, Arij is your go-to partner for reliable and superior mineral supply.

### **Our mineral products are as follows:**

- Limestone
- Celestine
- Quicklime
- Dolomite
- Chromite
- Hydrated lime
- Gypsum plaster
- Calcined dolomite



## Limestone:

We offer a wide range of Raw limestones in both white and gray varieties. Our white limestone serves as a versatile filler in various industries, while the gray limestone is renowned for its exceptional flux properties in steelmaking furnaces.

### ► Applications:

- **Iron & Steelmaking:** Used in metal refining to remove impurities in Blast Furnace.
- **Filler:** Using as filler in paper, paint, rubber, and plastics.
- **Construction:** Using limestone blocks and slabs.
- Cement industries
- Agricultural

## Lorem Shipment and Typical Specifications:

### ► Our Advantages:

- Supplying from the best deposits available with purity around 98%
- The high whiteness and brightness around 95-97%.
- Equipped mining and crushing system to achieve different sizes of Limestone.
- The competitive price due to providing from the nearest mines to the port of loading.

### Range Size:

- The product can be offered in fine size, and lump following customer requisition.

### ► Packing:

- Bulk
- Break Bulk
- Loose-loaded in Container
- Jumbo Bag (~ 1.2 MT)

### ► Shipping:

- Ocean
- Rail
- Road

## Quicklime

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Arij Global Trading

With our expertise and proven track record, we proudly supply a diverse range of high-quality Quicklime grades tailored to meet the specific requirements of various industries.

### ► Applications:

- **Metallurgical industries:** As a flux in purifying steel in the EAF and BOF.
- **Flue Gas Treatment:** For removing acidic gases.
- **Drinking Water Treatment:** PH Adjustment, and removing impurities.
- **Wastewater Treatment:** in municipal and Industries Wastewater.
- **Sludge Treatment:** in Animal Wastes, Petroleum Wastes, Industrial Sludge.

### ► Advantages:

- High calcium quicklime, with CaO content above 90% and LOI: 5% Max, made from rich deposits of high-purity limestone containing less than 1% Silicon Dioxide.
- High reactivity
- Low impurities
- Several different sizes from lump to micronized powder

## Shipment and Typical Specifications:

### ► Range Size

- Pebble lump (0-10 mm) and (20-60 mm) suitable for using in Iron & Steelmaking
- Micronized powder (in different mesh numbers)

### ► Packing

- Break Bulk
- Containerized Cargo
- 3 layers Polypropylene jumbo bag (~1.3 MT)
- Polypropylene AD\*STAR bag (50 KG)

### ► Shipping

- Ocean
- Rail
- Road Photos to be added.



# Hydrated Lime

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Arij Global Trading

We are honored to supply our customers' requirements with the finest quality Hydrated Lime (also known as Slaked Lime), derived from the purest reserves of limestone in our mines.

## ► Applications / Functions

- Water and Sewage Treatment
- Construction • Flue Gas Applications
- Food Industry Applications
- Petroleum Additives Industry
- Chemical Manufacturing Industries





## Shipment and Typical Specifications:

### Advantages

- High purity and quality (Ca (OH)<sub>2</sub>: 94%)
- Low impurities

### ► Range Size

- Different mesh numbers from 100 to 400 (37-150 microns)

### ► Packing

- Break Bulk
- Containerized Cargo
- 3 layers Polypropylene jumbo bag (~1.2 MT)
- Polypropylene AD\*STAR bag (50-25 KG)

### ► Shipment

- Ocean • Rail • Road Photos to be added.



# Dolomite

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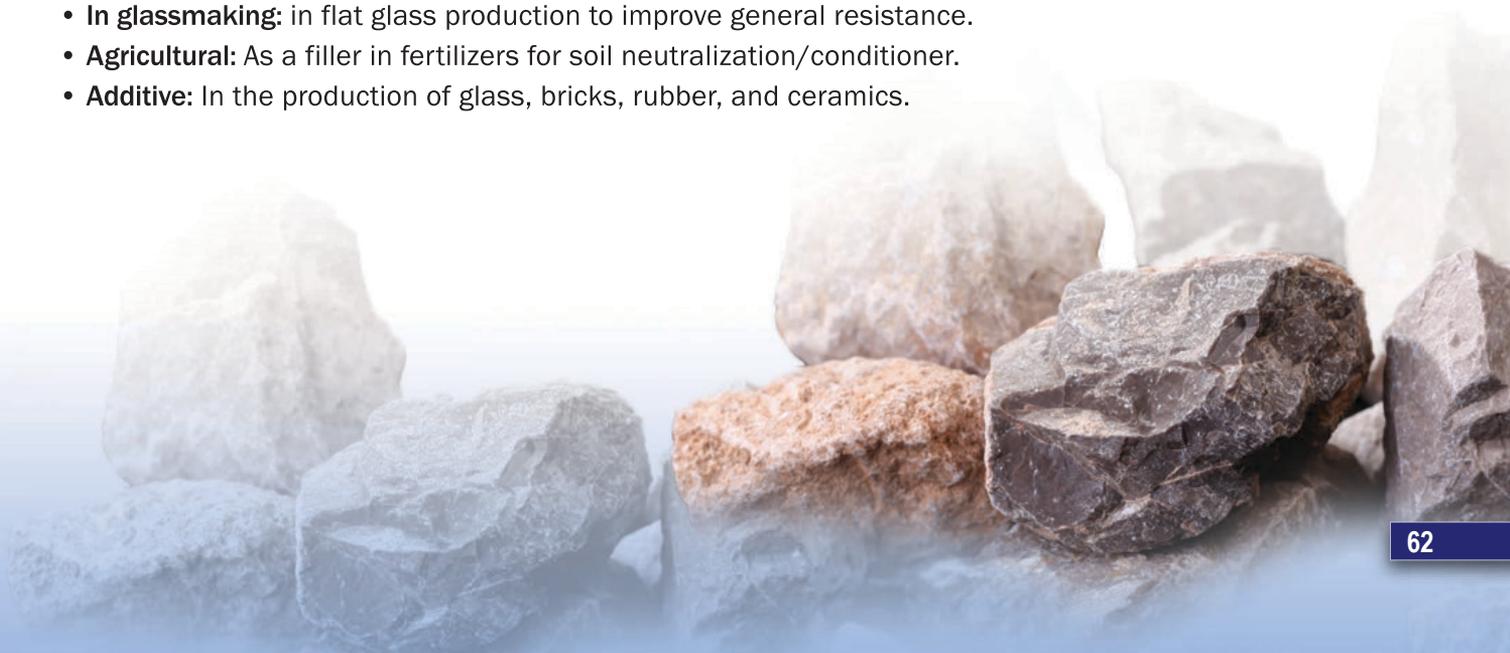


Arij Global Trading

Our supply of White and Gray types of Dolomites in a wide range of sizes caters to the needs of the construction, soil improvement, and environmental industries.

## ► Applications

- **In iron & steelmaking:** as a fluxing material for slag forming.
- **In glassmaking:** in flat glass production to improve general resistance.
- **Agricultural:** As a filler in fertilizers for soil neutralization/conditioner.
- **Additive:** In the production of glass, bricks, rubber, and ceramics.



## Shipment and Typical Specifications: Advantages

- Pure white color
- CaO: 30%
- MgO: 21%
- Competitive price
- Low impurities

### ► Range Size

- The typical size: 20-50 and 40-80 mm

### ► Packing

- Bulk
- Break Bulk
- Loose-Loaded in Container
- Jumbo Bag (~1.2 MT)

### ► Shipment

- Ocean
- Rail
- Road Photos to be added



# Calcined Dolomite (Dolime)

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Arij Global Trading

Calcined dolomite, widely recognized as Dolime, serves a crucial function within the steel industry due to its dual capacity for purifying processes and safeguarding refractory linings.

## ► Applications

- **Metallurgical industries:** As a fluxing material in EAF and protection of refractory lining.
- Production of magnesium
- **Environmental sector:** Wastewater and Sludge treatment



## Shipment and Typical Specifications: Advantages

Our Dolime has the highest purity of CaO: 55% min, and MgO: 34% min, and low impurities. These qualities, along with a LOI of 5% are beneficial for making a good slag and reducing energy consumption in steel industries.

### ► Range Size

- The typical size: 20-60, 5-50, 5-25 (mm)

### ► Packing

- Break Bulk
- Containerized
- 3 layers Polypropylene Jumbo Bag (~1.3 MT)
- Polypropylene AD\*STAR bag (50 KG)

### ► Shipment

- Ocean
- Rail
- Road



## Celestin (Selestite)

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Arij Global Trading

Celestine Ore, also known as Celestite, is a mineral renowned for its beautiful sky-blue color and unique crystal formations. Strontium compounds derived from Celestine Ore are used as dielectric materials and transparent conductive oxides in thin-film transistors (TFTs) that are crucial for LCD displays. Additionally, strontium ferrite, another compound containing strontium, is used in certain magnetic components within LCD panels.

- \* **Strontium Content:** Celestine Ore is rich in strontium, a chemical element known for its various applications. Strontium compounds derived from Celestine Ore are used in fireworks, pyrotechnics, and the production of red-colored flares.
- \* **Ceramics and Glass Manufacturing:** Celestine Ore is utilized in ceramic and glass industries due to its ability to act as a fluxing agent. It helps reduce the melting point of other materials, aiding in the production of high-quality ceramic and glass products.
- \* **Pigments and Dyes:** The vibrant blue color of Celestine Ore has led to its use as a pigment and dye in art, paint, and textile industries. It provides a unique shade of blue that adds depth and visual interest to various artistic creations.

## Purity:

**SrSo<sub>4</sub> (%)**

90-95

BaSo<sub>4</sub>(%) <1

Celestine HS Code: 25309030

### ► **Application**

- Electronics industry (TV, tablets, and screens)
- Electromagnets
- Fluorescent glass
- Pyrotechnics (fireworks)
- Alloys

### ► **Packing options for Celestine**

- Jumbo bag
- Break bulk



## Chromite

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Arij Global Trading

Chromite (HS code:261000), as the primary source of chromium, plays a crucial role in various industries due to its ability to impart desirable properties to steel. When chromite is melted in electric arc furnaces and subjected to the appropriate processes, it yields a valuable alloy known as ferrochrome. This alloy is formed through the combination of chromium and iron, and its properties make it highly sought after in different applications.

One of the major applications of ferrochrome is in the production of stainless steel. The addition of ferrochrome to steel enhances its corrosion resistance, making it suitable for a wide range of applications such as kitchen appliances, automotive parts, and construction materials. The presence of chromium imparts a lustrous and reflective surface to stainless steel, making it visually appealing as well.



► **Usage**

- stainless steel
- Refractories In Gasifiers
- Refractory Bricks and Linings

► **Packing**

- Jumbo bag
- Bulk



# Gypsum Plaster

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Arij Global Trading

Gypsum plaster is a premium white cementing material, meticulously produced by partially or completely dehydrating the mineral gypsum. This process is often enhanced with specialized retarders or hardeners to achieve optimal performance. When mixed with water, gypsum plaster forms a malleable compound that sets and contracts, providing a durable finish.



## ► Applications

- Ideal for false ceiling installations
- Perfect for wall surface treatments

## ► Benefits

- Provides a smooth and flawless finish
- User-friendly and easy to apply
- Offers excellent fire resistance
- Ensures rapid setting time for efficient project completion





Products

# Cement & Clinker



## Introduction

Cement is essential for construction, infrastructure, and real estate development. Cement production is crucial worldwide, with major producers like China, India, and the United States. Despite its importance, the industry faces challenges such as environmental concerns, high energy consumption, and raw material scarcity.



## Cement & Clinker



Arij Global Trading

Innovations in production techniques, including alternative fuels and eco-friendly cement, are driven by regulatory pressures and environmental awareness.

According to research, Global cement demand is expected to remain flat from 2024 to 2030, with notable increases only in the Middle East, India, and Africa. Sub-Saharan Africa is projected to grow by 77%, India by 42%, and North America by 20% by 2030. Conversely, the weakest markets are anticipated to be Turkey, China and Europe.



Despite weak global demand, the cement industry in Europe is set to sustain gross margin expansion, driven by higher cement prices and reduced fuel costs. The Middle East is a significant player in the global cement industry due to its strategic location and economic growth. Key producers include Saudi Arabia, the UAE and Egypt, with major infrastructure projects driving cement demand. The region faces challenges like high energy costs and import competition, prompting investments in modern technologies and alternative fuels to reduce costs and environmental impact.

The global cement industry is at a pivotal juncture, navigating diverse trends and forecasts. Regional dynamics show growth in the Middle East, India, and Africa, while Europe and the USA face market challenges. With over a decade of experience in cement exports, Arij Global Trading has established itself as a leading and reliable partner in the cement industry. Our commitment to quality and customer satisfaction ensures that we meet the diverse needs of our clients worldwide. Arij Global Trading specializes in sourcing and supplying high-quality cement products to meet the specific requirements of various construction and infrastructure projects. We offer a comprehensive range of cement types and grades, including:

- Ordinary Portland Cement (OPC)
- White Cement:
- Grey Cement:
- Clinker:
- Specialty Cement

Arij Global Trading leverages its extensive experience and expertise to provide unparalleled service to our clients. Our in-depth understanding of the cement industry allows us to offer products that adhere to the highest quality standards. Whether you require standard cement for everyday construction or specialized cement for unique projects, we can fulfill your needs.



Products

Chemicals



## Introduction

Ammonia ( $\text{NH}_3$ ) is a fundamental industrial chemical, widely recognized for its extensive applications in various sectors. As a colorless gas with a distinct pungent odor, ammonia is critical in the production of fertilizers, providing an essential source of nitrogen to enhance agricultural yield and sustainability.



# Ammonia

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Arij Global Trading



Its role extends to the synthesis of various chemicals, including nitric acid and urea, which are key components in plastics, explosives, and pharmaceuticals.

In 2023, the global production capacity of ammonia was approximately 280 million tons per annum (MTPA). The Middle East played a significant role in this production, with its capacity increasing from around 20 MTPA in 2018 to approximately 30 MTPA in 2023. This indicates that the Middle East holds roughly 10.7% of the global ammonia production capacity.

Looking ahead, the global ammonia production capacity is expected to continue growing, with significant contributions from planned and announced projects in Asia and the Middle East. These regions are poised to lead in capacity additions, with the Middle East alone expected to see substantial new capacity coming online over the next several years.

Purity (Wt.%)		
99.9 min.	N-Nitrogen H-Hydrogen	

► **Packing:**

Tank Trailer ... road transportation

► **Packing:**

Bulk and 220kg drums ... sea transportation

# Paraffin wax

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Arij Global Trading





Paraffin wax, derived from saturated hydrocarbons, is a soft, solid wax typically white or colorless. Its versatility makes it essential across various industries. In beauty and wellness, paraffin wax is prized for its colorless, tasteless, and odorless properties, commonly used in salon and spa treatments for hands, cuticles, and feet, offering skin-softening and soothing effects. It also relieves achy joints and muscles, making it popular for therapeutic uses.

In industrial applications, paraffin wax serves as a lubricant, an electrical insulator, and a key ingredient in candles and crayons. Its multifaceted nature extends to uses in wax paper, polishes, cosmetics, and electrical insulators. Additionally, it is crucial in perfume extraction from flowers, as a base for medical ointments and as a protective, waterproof coating for wood surfaces. This extensive utility underscores its importance in both everyday products and specialized industrial applications.

The global Paraffin wax market was valued at USD 7.2 Billion in 2022 and is projected to reach a value of USD 10 Billion by 2030 at a CAGR of 5.1% between 2023 and 2030.

The Middle East, known for its substantial petrochemical industry, contributes approximately 10-15% of this total capacity. This is due to the presence of major oil refineries and petrochemical complexes in the region, particularly in countries like Saudi Arabia and Iran, which are pivotal in the production and export of paraffin wax.

In the future, the demand for paraffin wax is projected to grow, driven by its diverse applications in different industries. The top market trend that is making this increase is

- ▶ Rising adoption of candles to propel market growth. Increased candle production utilization boosts revenue growth. With Paraffin wax, almost any type of candle can be made.
- ▶ Ongoing trend of pumping artificial muscles. Using Paraffin wax to pump up artificial muscles is a recent trend in the market. Infusing Paraffin wax into carbon nanotube yarn, which expands when heated, is the latest innovation, claim researchers.
- ▶ Increasing utilization within the packing sector. Paraffin wax is used to treat coat, laminate and impregnate aluminum, paper, and other important materials that come into contact with food

# Slack Wax

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Arij Global Trading





Slack wax, a by-product of the oil refining process, has numerous industrial applications. It serves as a precursor for producing paraffin wax and scale wax. This naturally brown, highly viscous refinery output undergoes various refining processes to yield different grades of paraffin.

Slack wax is classified into two main types: Heavy and Light. Light slack wax is essential for producing fully refined paraffin wax. Despite the consistent specifications across its grades, slack wax's properties include water resistance, thermal and electrical insulation, lubricating qualities, and the ability to melt without decomposition.

The applications of slack wax are diverse, including the production of wax emulsions, construction boards, matches, glass wool, textile treatments, synthetic fire logs, inks, weed barriers, carbon paper, composite wood panels, chemicals and fertilizers, paraffin wax, and candles. It is employed as a processing aid in rubber compound flow. Rubber compounds containing slack wax offer less surface cracking of rubber parts by forming a protective layer that prevents rubber cracking. Thus, the rise in demand for slack wax as an antiozonant agent for the prevention of the cracking of rubber compounds is driving the global slack wax market share.

The global production capacity of slack wax is significant, with the market valued at around USD 730 million in 2023. The market is expected to grow, driven by demand in various industries such as rubber, cosmetics, and candle manufacturing. The Middle East plays a notable role in this market, particularly due to its extensive crude oil refining operations. However, specific figures on the Middle East's exact share of global slack wax production capacity are not readily available.

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