



ALLOYS & METALS (INDIA)

STRENGTH, QUALITY, RELIABILITY

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**THAT'S OUR  
METAL PROMISE**

# ABOUT US

Founded in 1964 by Late Shreelal Keyal, Alloys and Metals (India) has a rich legacy. Today, led by Mr. Vijay Keyal with 40+ years of experience, supported by young visionaries, Mr. Ankit Keyal and Mr. Vivek Keyal. Collectively we have maintained a stellar reputation in the global market with our dedication to consistently delivering on time and maintaining the highest level of quality to exceed customer expectations.

As we continue our growth trajectory, we aspire to explore new markets and extend a warm invitation to prospective suppliers and customers to collaborate with us in forging robust partnerships for a promising future. Your trust and confidence are the catalysts driving us towards new horizons and milestones.

## OUR MANAGEMENT

The dynamics within a team of three individuals are unique. Each member plays a pivotal role, and their contributions are noticeable and impactful.



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# OUR PRODUCTS

We effortlessly strive to provide unified resolutions for supplying, trading and providing raw materials. We have productively been able to establish ourselves as a renowned name engaged in offering quality range of Metals and Alloys through our reliable network of suppliers and importers. We organize our products in 2 main categories, each with a wide variety of selections supported by industry knowledge:

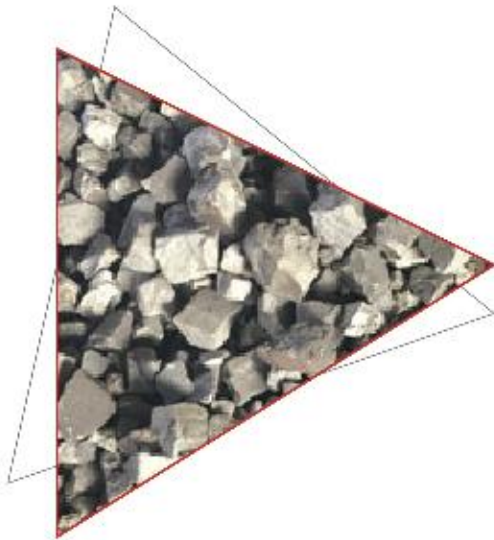
## BULK FERRO ALLOYS

### SILICO MANGANESE (SiMn)

Silico Manganese is used mainly for steel making and comprises of majority of our exports. Along with the standard grades of SiMn, we are open to producing different grades of SiMn based on our customers requirements. The main grades we offer are:

**Size:** 10 to 50 / 60 / 80 / 100 / 150 MM

**Packing:** Bulk / 40 / 50 / 1000kg Bags



Mn	60 % Min	65 % Min	70 % Min
Si	14 % Min	16 % Min	16 % Min
C	2.50 % Max	2.0 % Max	2.0 % Max
P	0.30 % Max	0.20 - 0.25 % Max	0.25 % Max
S	0.03 % Max	0.03 % Max	0.03 % Max

### LOW CARBON SILICO MANGANESE (LC SiMn)

Mn	55 % Min	58 % Min	58 % Min
Si	27 % Min	27 % Min	27 % Min
C	0.10 % Max	0.10 % Max	0.08 % Max
P	0.10 % Max	0.10 % Max	0.10 % Max
S	0.03 % Max	0.03 % Max	0.03 % Max

### LOW PHOSPHOROUS (SiMn)

Mn	65 % Min
Si	16 % Min
C	2.0 % Max
P	0.10 % Max
S	0.03 % Max

### HIGH CARBON FERRO MANGANESE (HCFeMn)

HCFeMn is used in the production of both Steel and Foundry products. Along with the standard grades, we are open to producing different grades based on our customers requirements. The main grades we offer are:

**Size:** 10 to 50 / 60 / 80 / 100 / 150 MM

**Packing:** Bulk / 40 / 50 / 1000kg Bags



Mn	65 % Min	70 % Min	73 % Min	75 % Min	76 % Min	76 % Min
C	8 % Max	8 % Max	6 % - 8 % Max	7 % Max	7 % Max	7 % Max
Si	1.5 % Max	1.5 % Max	1.2 % Max	1.0 % Max	1.0 % Max	1.0 % Max
P	0.35 % Max	0.30 % Max	0.30 % Max	0.25 % Max	0.20 % Max	0.10 % Max
S	0.04 % Max	0.03 % Max	0.03 % Max	0.03 % Max	0.03 % Max	0.03 % Max

## MEDIUM CARBON FERRO MANGANESE (MCFeMn)

MCFeMn is used in the production of both Steel and Foundry products. We offer various grades of MC FeMn. However, we are open to producing different grades of MCFeMn based on our customers requirements. The main grades we offer are:

**Size:** 10 to 50 / 60 / 80 / 100 / 150 MM  
**Packing:** Bulk / 40 / 50 / 1000kg Bags

Mn	70 % Min	75 % Min	78 % Min	80 % Min
C	1.5 % Max	1.5 % Max	1.5 % Max	1.0 % Max
Si	1.5 % Max	1.5 % Max	1.5 % Max	1.0 % Max
P	0.35 % Max	0.25 % Max	0.25 % Max	0.25 % Max
S	0.03 % Max	0.02 % Max	0.02 % Max	0.02 % Max

## HIGH CARBON FERRO CHROME

Steel production, especially Stainless Steel (10-20% chromium), is the top consumer of Ferrochrome. It's categorized by Carbon and Chrome levels. High carbon Ferrochrome is vital for making ball-bearing, tool, and alloy steels. More than 80% of global Ferrochrome goes into Stainless Steel production.

Our basket of High Carbon Ferro Chrome comprises of below grades:

**Size:** 10 to 50 / 60 / 80 / 100 / 150 MM  
**Packing:** Bulk / 40 / 50 / 1000kg Bags

Cr	55 - 60% Min	60 - 65% Min	60 - 65% Min	60 - 65% Min	60 - 65% Min	65 % Min
Si	4 % Max	1.5 % Max	2 % Max	3 % Max	3.5 % Max	1 % Max
C	9 % Max	9 % Max	8.8 % Max	8.75 % Max	8 % Max	8 % Max
P	0.05 % Max	0.035 % Max	0.035 %Max	0.035 %Max	0.035 %Max	0.035 %Max
S	0.05 % Max	0.05 % Max	0.05 % Max	0.05 % Max	0.05 % Max	0.05 % Max

## LOW CARBON FERRO CHROME

Low Carbon Ferro Chrome is a vital Chromium-Iron alloy with 50-70% Chromium content. It's essential for Foundry and Steel industry applications, used to adjust Chromium levels during Steel production without affecting Carbon/traces. It's also a cost-effective alternative to metallic Chrome in super alloys and special melting processes.

Our range includes the below grades:

**Size:** 10 to 50 / 60 / 80 / 100 / 150 MM  
**Packing:** Bulk / 40 / 50 / 1000kg Bags

Cr	58 - 61%	60 - 65 %	65 - 70 %	65 - 70 %
C	0.10 % Max	0.10 % Max	0.10 % Max	0.06 % Max
Si	1 % Max	1 % Max	1 % Max	1 % Max
P	0.04 % Max	0.04 % Max	0.04 % Max	0.04 % Max
S	0.05 % Max	0.05 % Max	0.05 % Max	0.05 % Max

## FERRO SILICON (FESI)

FeSi is a highly power consuming product. FeSi needs almost 3 times power/electricity compared to SiMn & FeMn. As a result, the cost of electricity is the main proportion of the cost of FeSi (almost 65% of the total cost of production). A typical 9MVA furnace producing 16,500MT of SiMn & FeMn per year will produce only 7,200MT of Ferro Silicon. The main grades offered by us are:

**Size:** 10 to 50 / 60 / 80 / 100 / 150 MM

**Packing:** Bulk / 40 / 50 / 1000kg Bags

SI	70 - 72 %	72 - 73 %
Al	1 % Max	0.80 % Max
C	0.15 % Max	0.12 % Max
S	0.02 % Max	0.02 % Max
P	0.04 % Max	0.04 % Max
Cr	0.03 % Max	0.03 % Max
Ti	0.02 % Max	0.02 % Max



## IRON & STEEL

### MILD STEEL BILLETS

Our range of products also includes Mild Steel Billets which are also called Non-Alloy Steel Billets. They are useful for making construction bars (TMT/deformed) and other structurals. Our range includes the below:

**Size:** 10 to 50 / 60 / 80 / 100 / 150 MM

**Packing:** Bulk / 40 / 50 / 1000kg Bags

GRADE	Manganese <sup>(%)</sup>	Silicon <sup>(%)</sup>	Carbon <sup>(%)</sup>	Phosphorus <sup>(%)</sup>	Sulphur <sup>(%)</sup>
Commercial	0.60 Min	0.15 Min	0.15 Min	0.07 Max	0.06 Max
Grade 40	0.70 - 0.90	0.23 - 0.27	0.20 - 0.35	0.05 Max	0.05 Max
Grade 60	1.20 - 1.40	0.25 - 0.35	0.30 - 0.36	0.05 Max	0.05 Max

### PIG IRON

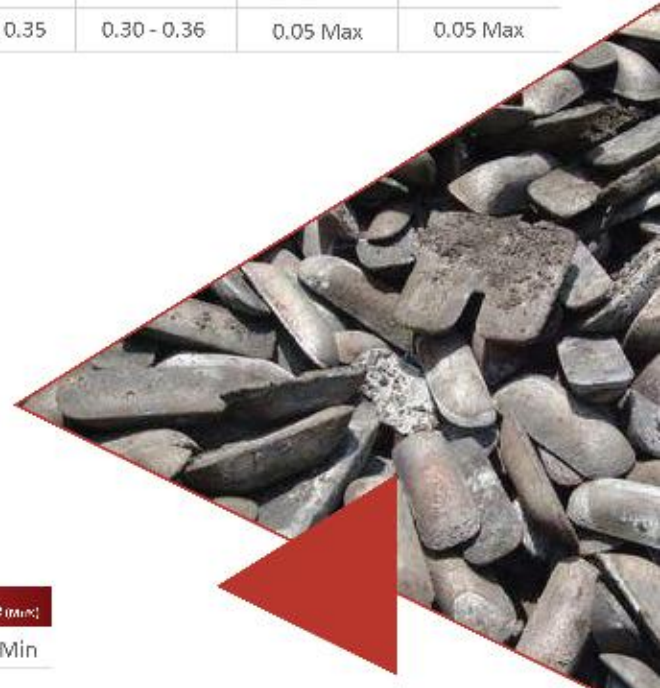
Pig iron is a metal material that results when Iron Ore, Low Ash Coke, and Limestone are melted together under intense air pressure. When the combined material cools, it forms a High-Carbon product known as Pig Iron. The cooled material is rarely used by itself, as the large amount of Carbon makes the material brittle. This type of iron is further refined through additional melting and blending processes to create wrought iron, cast iron, or steel.

Our range includes the below:

**Size:** 10 to 50 / 60 / 80 / 100 / 150 MM

**Packing:** Bulk / 40 / 50 / 1000kg Bags

Silicon <sup>(%)</sup>	Carbon <sup>(%)</sup>	Sulphur <sup>(%)</sup>	Phosphorus <sup>(%)</sup>	Manganese <sup>(%)</sup>
0.60 - 0.75 Max	3.8 - 4.5 Min	0.05 - 0.07 Max	0.11 - 0.13 Max	0.25 - 0.40 Min



# OUR ARRAY OF CERTIFICATES

Our management receiving the award for star performer in export of Ferro Alloys from eastern region from the honourable Minister of Industry & Commerce.



# OUR GLOBAL PRESENCE

Our journey has taken us far and wide, spanning continents and crossing borders. Over the years, we have cultivated a vast network of clients, suppliers, and partners across the globe. This global network empowers us to offer as per customer needs and meet the unique needs of each region.

Regardless of where you are in the world, our commitment to customer satisfaction remains unwavering. We understand the diverse and changing needs of our global clientele, and we pride ourselves on delivering tailored products while adhering to our uncompromising standards of quality.

As we continue to grow and expand our global presence, we remain dedicated to delivering excellence in every aspect of our operations. We invite you to join us on this exciting journey and experience first hand the difference that a truly global company can make.





pearlenterprises.in

## CONTACT US

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