



SIMIA
Steel & Foundry





Simia Energy and Mining is a leading provider of raw materials, finished products, and machinery for the steel and related industries.

ABOUT US

Simia Steel and Foundry is a private held company in the steel industry, backed by the robust financial and operational expertise of its parent company—RAHAP Financial And Investment Group—.

We leverage our optimization expertise to achieve global market dominance through strategic international trade.





Specialty Areas

- 1 Steel industry raw material supply and produce
- 2 Raw material import and finished product Export.
- 3 SCM
- 4 Coils, Sheets and precious metal supply.
- 5 Machinery
- 6 Mining EPC

Steel Industry raw material supply and produce

■ Ferroalloys:

FeSi, FeSiMn, FeMn, FeCr, FeMo, FeV, FeP

■ Carbon products:

CPC, GPC, Metallurgical coke, Coaking Coal, Anthracite, injected anthracite, Met coke, Graphite Electrode etc.

■ Raw materials:

DRI, Pellets, HBI.

■ Minerals:

Silicon, Iron Ore, Concentrate, Manganese Ore.



Importing Raw Materials and Exporting raw materials and finished products

Leveraging a global network of leading mills and manufacturers, we source high-quality raw materials, including graphite electrodes, CPC, GPC, FeSiMn, steel, TFS, ETP, ores, and precious metals. Our strategic partnerships with key players in China, India, Turkmenistan, Georgia, South Africa, Thailand, and Indonesia ensure a reliable supply chain for our diverse product portfolio.

Maintaining strict quality control, ensures that our FeSi boasts Si content exceeding 72% and Al content below 2%.

SCM Services

Leveraging expertise in raw materials and finished products exchange, we optimize cash flow and facilitate seamless international trade using Letters of Credit.

Coils, sheets and Precious metals

Stainless Steels, TFS, Tin Plate, PPGI, GL etc.

Palladium, Nickel, Rhodium, Silver, Iridium, platinum, Tin.



Partners and clients



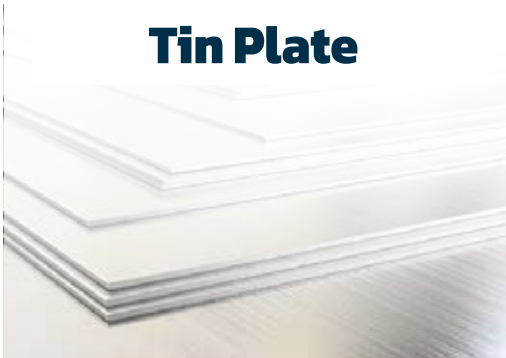
Steel, Minerals, Alloys



Steel Coils



Tin Plate



Stainless Steel



Tin Free Steel



SIMIA

Ferroalloys



Ferro Silicon Manganese

SIZE	Mn	Si	C	S	P
10–60 mm	60–65%	14–16%	Max 2.5%	Max 0.03%	Max 0.3%
20–150 mm	65–70%	15–17%	Max 2%	Max 0.03%	Max 0.3%



Ferro Silicon

Min	Max					
Si	Al	Mn	Ca	P	S	C
70–72	1–1.5	0.4	0.6	0.01	0.01	0.02



Ferro Silicon Magnesium

SIZE	Mg	Si	C	S	P
1–5 mm	Min 44–48	Min 5–6.5	Min 0.8–1.1	Max 1.2	Max 1
5–15 mm					
5–25 mm					
5–30 mm					



Ferro Manganese

	SIZE	Mn	Si	C	S	P
H	10–60 mm	70–75%	Max 1.5%	6–8%	Max 0.03%	Max 0.2%
		75–80%	Max 1.5%	6–8%	Max 0.03%	Max 0.2%
M	10–60 mm	Min 78%	Max 1%	Max 1.5%	Max 0.02%	Max 0.15%
L	10–60 mm	Min 78%	Max 1%	Max 0.2%	Max 0.02%	Max 0.15%



Ferro Phosphorus

SIZE	Fe	Si	Ti	P	C	Mn
20–80 Mm	70–71	4–5	≤0.5	20–25	≤0.4	3–4



Ferro Chrome

SIZE	Cr (%)	Si	C	S	P
10–60 mm	Min 65–70	Max 1.5%	6–8%	Max 0.02%	Max 0.02%
10–60 mm	Min 60–65	Max 1.5%	Max 0.1%	Max 0.02%	Max 0.02%



Germination

Inoculants	%Al	%Mn	%Sr	%Ba	%Ca	%Ze	%Si
Zr	1–1.5	–	–	–	2–2.5	1.3–1.8	73–78
Ba	Max 1.5	–	–	2–3	1–2	–	72–78
Sr	Max 0.5	–	0.75–10	–	Max 0.8	–	73–78



Ferro Molybdenum

SIZE	Mo	Si	C	Cu
10–100 mm	60–65%	0.10%	0.10%	Max 0.5%



Carbon Products



Petroleum Coke

	SIZE	VM	Ash	C	S	Moisture
GPC	1-5 mm	Max 0.8%	Max 0.5%	98.5%	Max 0.05%	Max 0.05%
CPC	1-5 mm	Max 0.6%	Max 0.5%	Min 98.5%	Max 0.6%	Max 0.5%



Graphite Electrode (Exp: 700)

Specification	Resistance $\Omega\cdot m$	Bulk Density $g/(cm)^3$	Bending strenght Mpa	Modulus of Elasticity Gpa	CTE 10-6/c	ASH%
Electrode	≤ 5	≥ 1.7	≥ 10.5	≤ 14.0	≤ 1.50	≤ 0.2
Nipple	≤ 4	≥ 1.78	≥ 20	≤ 20	≤ 1.40	≤ 0.2

Minerals and Raw Materials



Direct Reduced Iron



Iron Waste

Minerals



Manganese Ore

Mn%	SiO ₂ %	Al ₂ O ₃ %	Fe%	P%	S%	MnO ₂ %	CaO%	MgO%
50.95	5.40	1.59	2.73	0.052	0.012	59.08	0.97	0.11



Silicon

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	Na ₂ O	K ₂ O
99.52%	0.09%	0.05%	0.01%	0.02%	0.01%
MgO	TiO ₂	MnO	P ₂ O ₅	S	L.O.I
0.02%	0.008%	0.003%	0.010%	0.006%	0.09%



Pellets



Iron Ore (hematite_magnetite)

SiO ₂ %	Al ₂ O ₃ %	BaO%	CaO%	Fe(1)%	FeO%	K ₂ O
0.05	0.05	0.05	0.05	0.05	0.05	0.05
MgO%	MnO%	Na ₂ O%	P%	S%	TiO ₂ %	Loi%
0.05	0.05	0.05	0.05	0.05	0.05	0.05



Tin



Iron Ore Concentrate

ELEMENT	RESULT(WT%)	REMARK
Fe(Total)	66	Min
FeO	21	Min
SiO2	1.92	Max
Al2O3	0.3	Max
P	0.03	Max
S	0.22	Max

Size(Micron)	Percentage
<75	63.4
125-75	22.6
>125	14.0

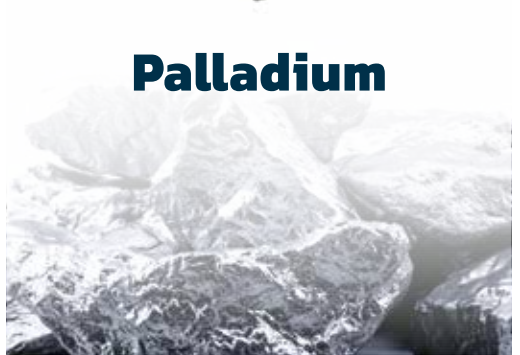
Precious Metals



Nickel



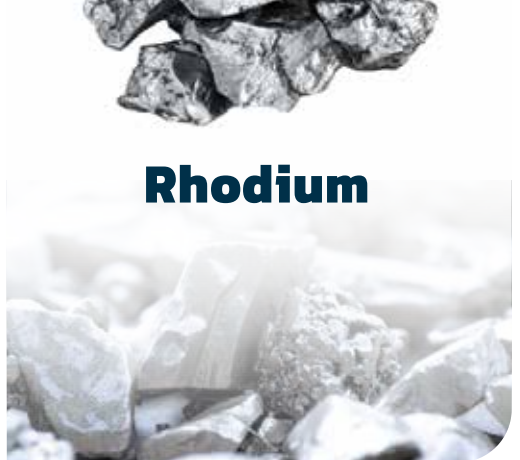
Palladium



Silver

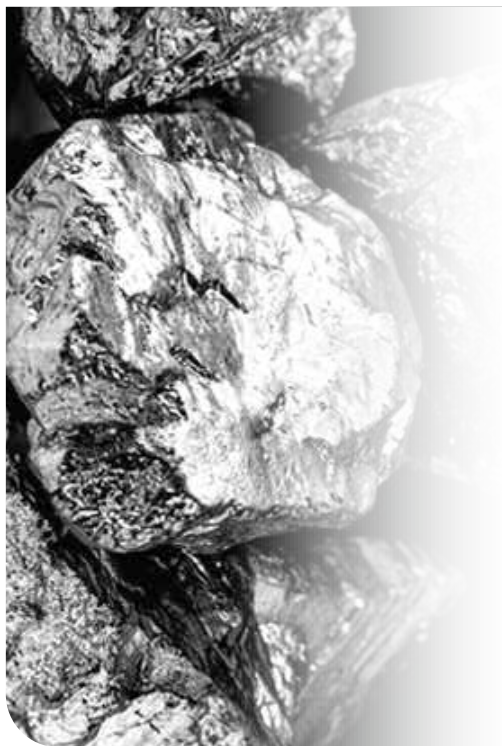


Rhodium





Iridium





Platinum


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