



THE MINERALS & METALS COMPANY

**SKP Merchants Pvt. Ltd.
NNP Ferro Alloys Pvt. Ltd.**

about us



Leading Manufacturer,
Importer & Exporter
of Ferro Alloys
in India



Marketing Agent
of Bhutan Ferro Alloys Ltd. (BFAL)
and Bhutan Silicon Metal Pvt. Ltd.
for Ferro Silicon.

FERRO ALLOYS



H.C. Ferro Chrome

Cr :	58% Min	60% Min
Si :	4.0% Max	3% Max
C :	8.5% Max	8% Max
P :	0.05% Max	0.05% Max
S :	0.06% Max	0.05% Max
Size :	10-100 mm	10-50 mm
	(90% Min)	(90% min)

L.C. Ferro Chrome

Cr :	60% Min
Si :	2.5% Max
C :	0.10% Max
P :	0.045% Max
S :	0.025% Max
Size :	10-50 mm
	(90% Min)



Silico Manganese

Mn :	40% Min	50% Min	60% Min	65% Min
Si :	10% Min	12% Min	14% Min	15% Min
C :	2.50% Max	2.50% Max	2.50% Max	2% Max
P :	0.35% Max	0.35% Max	0.30% Max	0.25% Max
S :	0.04% Max	0.04% Max	0.03% Max	0.03% Max
Size :	10-50 mm	10-50 mm	10-50 mm	10-50 mm
	(90% Min)	(90% Min)	(90% Min)	(90% Min)



Ferro Silicon

Si :	65% Min	70% Min	75% Min
AL :	3% Max	1.5% Max	1.5% Max
C :	0.2% Max	0.15% Max	0.15% Max
P :	0.04% Max	0.04% Max	0.04% Max
S :	0.04% Max	0.04% Max	0.04% Max
Size :	10-100mm(90% Min)	10-50 mm (90% Min)	10-60 mm (90% Min)



Ferro Manganese

MN :	65% Min	70% Min	75% Min
Si :	2.2% Max	2% Max	1.5% Max
P :	0.40% Max	0.35% Max	0.30% Max
S :	0.04% Max	0.04% Max	0.04% Max
C :	8% Max	8% Max	8% Max
Size :	10-50mm (90% Min)	10-60mm (90% Min)	10-50mm (90% Min)

MINERALS



Semi Carbonate Manganese Ore (40% Mn)

Manganese (Mn)	40.50%
Iron (Fe)	4.0-6.0 %
Silica (SiO ₂)	5.0-7.0 %
Alumina (Al ₂ O ₃)	0.12%
Phosphorus (P)	0.02%
Sulphur (S)	0.01%
Moisture	0.80%
Size	6-75 mm : 90%



Semi Carbonate Manganese Ore (37% Mn)

Manganese (Mn)	37.00%
Iron (Fe)	4.0-6.0 %
Silica (SiO ₂)	5.0-7.0 %
Alumina (Al ₂ O ₃)	0.25%
Phosphorus (P)	0.02%
Sulphur (S)	0.01%
Moisture	0.80%
Size	6-75 mm : 90%



Manganese Ore (High Fe)

Manganese (Mn)	34% Min
Iron (Fe)	18% Min
Silica (SiO ₂)	5% Max
Alumina (Al ₂ O ₃)	4% Max
Phosphorus (P)	0.55% Max
Size	5-100 mm : 80%



Manganese Ore (40%)

Manganese (Mn)	42% Min
Iron (Fe)	5% Max
Silica (SiO ₂)	10% Max
Alumina (Al ₂ O ₃)	10% Max
Phosphorus (P)	0.05% Max
Size	6-80 mm : 80% Min



Anthracite Coal (10-30mm/5-20mm)

Total Moisture	8% Max
Ash (DB)	8% Max
VM (DB)	3% Max
FC	89% Min
Sulphur (DB)	1% Max
Phos (DB)	0.020% Max
GCV	7000 Kcal/Kg.
Size	10-30 mm / 5 - 20 mm



SEMI COKE

Total Moisture	15%	Above 20%
Ash (DB)	8%	Above 10%
VM (DB)	7%	Above 10%
FC	85%	Below 83%
Sulphur (DB)	0.40%	Above 0.50%
Phos (DB)	0.010%	Above 0.30%
8-18mm	90	Below 80%
+18mm		
-8mm		



Quick Lime

Available CaO	91% Min
Total CaO	92% Min
MgO	1.50% Max
SiO ₂	1.00% Max
Fe ₂ O ₃	0.15% Max
Sulphur	0.03% Max
Al ₂ O ₃	0.15% Max
LOI	4.00% Max
Unburnt CaCO ₃	3.50% Max
Powder Content	2-3% Max
Grain Size	10-50 mm : 93% Min
Packing	1.1 MT PP Woven Jumbo Bags

NODULISERS & INOCULANTS

Ferro Silicon Magnesium

SPECIFICATION :

Grade	Chemical Composition				
	Mg %	Si %	Ca %	RE %	Al % Max
300	3.5-4.5	40-45	0	0	1
311	3.5-4.5	45-47	0.8-1.2	0.8-1.2	1
322	3.5-4.5	45-47	1.5-2	1.5-2	1
600	4-6	40-45	0	0	1
611	4-6	45-47	0.8-1.2	0.8-1.2	1
622	4-6	45-47	1.5-2	1.5-2	1
700	5-7	40-45	-	-	1
711	5-7	45-45	0.8-1.2	0.8-1.2	1
722	5-7	45-47	1.5-2	1.5-2	1
811	6-8	45-47	0.8-1.2	0.8-1.2	1
822	6-8	45-47	1.5-2	1.5-2	1
912	8-9	45-47	0.8-1.2	1.5-2	1
1011	8-10	45-47	0.8-1.2	0.8-1.2	1
1022	9-10	45-47	1.5-2	1.5-2	1
1122	9-11	45-47	2.7-3	2.7-3	1
1134	10-11	46-50	3.2-3.5	3.2-3.5	1
1201	10-12	45-50	1.5-2.0	0.8-1.2	1
2011	18-20	50-55	0.8-1.2	0.8-1.2	1
2211	20-22	50-55	0.8-1.2	0.8-1.2	1



Inoculants

GRADE	CHEMICAL COMPOSITION (%)								
	Si	Ba	Sr	Zr	Re	Ca	Al	Mn	Fe
NNP R	70 - 75	--	--	--	--	0.6 - 1.0	0.6 - 1.0	--	Balance
NNP 13 A1	72 - 76	--	--	--	--	0.5 - 1.5	3.5 - 4.5	--	Balance
NNP 13 A2	72 - 76	0.05 - 1.0	--	0.1 - 0.2	--	1.5 - 2.0	3.5 - 4.5	0.5 - 1.0	Balance
NNP 20 A1	70 (min)	--	--	--	--	7.0 - 9.0	0.5 (max)	--	Balance
NNP 20 A2	70 (min)	--	--	--	--	1.5 - 2.0	0.5 (max)	--	Balance
NNP 38 A1	72 - 76	--	0.6 - 1.0	--	--	0.1 (max)	0.5 (max)	--	Balance
NNP 38 A2	50 - 55	--	0.6 - 1.0	--	--	0.1 (max)	0.5 (max)	--	Balance
NNP 38 Z	72 - 76	--	0.6 - 1.0	1.0 - 1.5	--	0.1 (max)	0.5 (max)	--	Balance
NNP 40	72 - 76	--	--	1.2 - 1.8	--	2.0 - 3.0	1.0 - 1.5	--	Balance
NNP 56 L	72 - 76	0.75 - 1.25	--	--	--	0.75 - 1.25	0.75 - 1.25	--	Balance
NNP 56 H A1	72 - 76	2.0 - 3.0	--	--	--	1.0 - 2.0	1.5 (max)	--	Balance
NNP 56 H A2	60 - 65	2.0 - 3.0	--	--	--	1.0 - 2.0	1.5 (max)	--	Balance
NNP 56 H A3	46 - 50	7 - 11	--	--	--	1.5 - 2.5	2.0 - 3.0	1.2 - 2.5	Balance
NNP 58	72 - 76	--	--	--	1.5 - 2.0	0.5 - 1.0	0.5 - 1.0	--	Balance
NNP MBZ	62 - 68	0.3 - 0.7	--	3.0 - 5.0	--	0.6 - 1.9	0.5 - 1.2	3.0 - 5.0	Balance

OTHER FOUNDRY SUPPLIES

Carbon Raiser

Fc :	90% Min
Vm :	3.0% Max
Sulphur :	0.2% Max
Phos :	0.02% Max
Size :	1-5 mm



Unexpanded Perlite Ore / Slag Coagulator

Used For Foundry, Casting

SIZE 1.20 - 2.80 mm

Chemical Composition (+/-10%)

Na2O	3.43%
MgO	0.13%
Al2O3	12.75%
SiO2	73%
K2O	5.27%
CaO	0.90%
TiO2	0.10%
Fe2O3	1%
LOI	3-3.5%

Physical Properties

Rock Structures	Classical Perlite
Colour	Light Grey
Bulk Density	1000-1200 Kg/M3
Moisture	1% Max
Ph	6 - 8.5
For Temperature	700 - 1000 Degree C



CORED WIRES

FeSiMg Cored Wire

FeSiMg - 30

FeSiMg - 40

FeSiMg - 50

FeSiMg - 60

FeSiMg - 70

Mg - 100

Wire diameter - 9, 13 & 16 mm

Other Alloying elements like Ce Misch Metal, La, Ba, Ca, C, FeSi can also be incorporated as per process requirements



- Aluminum Cored Wire
- Calcium Iron Cored Wire
- Calcium Aluminum Iron Cored Wire
- Calcium Cored Wire
- Carbon Cored Wire
- Ferro Boron Cored Wire
- Ferro Silicon Calcium Cored Wire
- Ferro Titanium Cored Wire
- Ferro Molybdenum Cored Wire
- Ferro Selenium Cored Wire
- Ferro Niobium Cored Wire
- Graphite Cored Wire
- Lead Cored Wire
- Lead Calcium Carbonate Cored Wire
- Nitrided Manganese Cored Wire
- Sulphur Cored Wire
- Tellurium Manganese Cored Wire





“
QUALITY
IS NEVER AN ACCIDENT
IT IS THE RESULT OF
intelligence
EFFORT
”



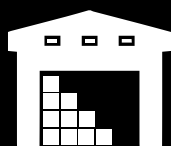
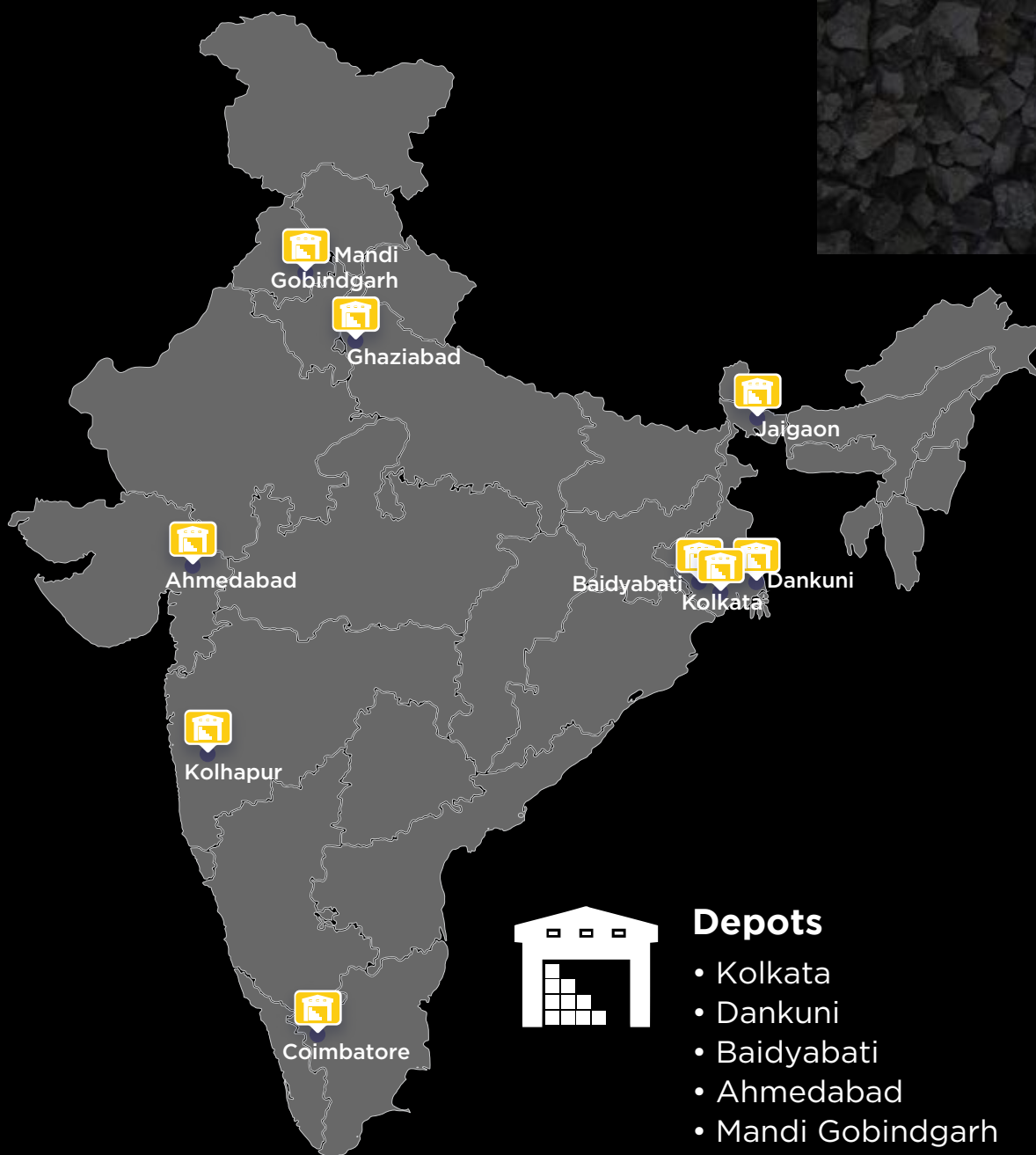
Advanced Analytical Capabilities

We have newly installed a Rigaku XRF model ZSX PrimusIV, imported from Japan, for precise analysis of all chemical elements. Our sample preparation facilities, including a vibratory cup mill and pellet press, ensure accurate results.

Quality Control Excellence

Our experts monitor every stage of production, from raw material sourcing to packaging, ensuring the highest quality standards.





Depots

- Kolkata
- Dankuni
- Baidyabati
- Ahmedabad
- Mandi Gobindgarh
- Kolhapur
- Jaigaon
- Ghaziabad
- Coimbatore

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