

Melted Products Delivery Programme and Applications

Chromium Metal

- Superalloys for aerospace and land based turbines
- Electrical resistance wire
- Nickel alloys for industrial engineering
- Atomised hardfacing alloys for thermal spraying
- Medical alloys

Ferro Niobium (vacuum grade)

- Superalloys for aerospace and land based turbines
- Nickel alloys for industrial engineering

High Carbon Chromium Metal

- Atomised hardfacing alloys for thermal spraying

Nickel Boron

- Atomised hardfacing alloys for

70% Ferro Titanium

- Automotive interstitial free steels
- HSLA steels for pipeline applications
- Stainless steels

Ferro Boron

- Magnet alloys
- Steels

Hypercal

- Steels
- Cast irons

These products are supplied in accordance with a Quality Assurance system which meets the standards of ISO9001.

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Ferro Niobium Vacuum Grade

Production Method:

Produced by AMG in Germany via aluminothermic reduction of niobium oxide from AMG in Brazil.

Size & Packaging:

Available to customers' requirements.

Chemical analysis in wt%

Grade	FeNb
Nb	min 60.0%
Ta	0.25% max
Si	0.25% max
Al	1.5% max
Fe	Main balance
C	0.1% max
S	0.02% max

Chemical analysis in wt%

Grade	FeNb
P	0.03% max
Pb	0.005% max
O	0.1% max
N	0.05% max
Cr	0.1% max
Ti	0.1% max

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Niobium Containing Powders

Production Method:

Aluminothermic reaction.

Size & Packaging:

Available to customers' requirements, and size controlled by particle size analysis.

Chemical analysis in wt%

Alloy	Chrome Niobium	Ferro Niobium
Nb	77 – 83%	min 60%
Cr	Main balance	0.1% max
Al	1.5% max	1.5% max
C	0.05% max	0.1% max
Fe	0.5% max	Main balance
P	0.01% max	0.03% max
S	0.01% max	0.02% max
Si	0.5% max	0.25% max
Pb	-	0.005% max
Ta	-	0.25% max
Ti	-	0.1% max
N	-	0.05% max
O	-	0.1% max

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