

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

High Carbon Chromium Metal

- Atomised hardfacing alloys for thermal spraying

Nickel Boron

- Atomised hardfacing alloys for thermal spraying

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 and AS9100

Date September 17

Production Method:

Induction furnace.

Size & Packaging:

Available to customers' requirements, e.g. 0-2mm and 0-50mm.

Chemical analysis in wt%				
Grade	FeTi 70% Standard 5% Al	FeTi 70% High Purity 2.5% Al	FeTi 70% High Purity 1% Al	FeTi 70% High Purity 0.5% Al
Ti	68.0 - 72.0%	68.0 - 72.0%	68.0 - 72.0%	68.0 - 72.0%
Al	5.0% max	2.5% max	1.0% max	0.50% max
V	3.5% max	1.75% max	0.75% max	0.25% max
Sn	0.50% max	0.50% max	0.20% max	0.20% max
Si	0.50% max	0.25% max	0.25% max	0.25% max
C	0.15% max	0.15% max	0.15% max	0.15% max

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Production Method:

Carbothermic reduction.

Size & Packaging:

Available to customers' requirements.

Chemical analysis in wt%

Grade	FeB
B	17.0 – 20.0%
C	0.50% max
Al	0.20% max
S	0.01% max
Si	0.50% max
P	0.05% max
Fe	Balance

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Date September 17

Production Method:

Carbothermic or aluminothermic reduction.

Size & Packaging:

Available to customers' requirements.

Chemical analysis in wt%			
Grade	Regular Grade REG NiB	Low C Grade LC NiB	Ultra Low C ULC NiB
B	15.0 – 20.0%	14.0 – 18.0%	14.0 – 18.0%
Si	0.50% max	0.50% max	0.50% max
Al	0.20% max	0.20% max	0.20% max
Fe	3.0% max	3.0% max	3.0% max
S	0.005% max	0.005% max	0.005% max
P	0.02% max	0.02% max	0.02% max
C	0.50% max	0.15% max	0.05% max
Ni	Balance	Balance	Balance

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Date September 17

Production Method:

Carbothermic reduction or induction furnace melted.

Size & Packaging:

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

Chemical analysis in wt%				
Alloy	FeB	FeSiB	NiB	CrB
B	17.0 – 20.0%	3.5 – 5.5%	15.0 – 20.0%	min 15.0%
C	0.50% max	0.25% max	0.50% max	4.0 – 7.0%
Al	0.25% max	0.75% max	0.20% max	0.35% max
Si	0.50% max	19.0 – 23.0%	0.80% max	1.0% max
S	0.01% max	0.02% max	0.02% max	0.05% max
P	0.05% max	0.04% max	0.02% max	0.05% max
Fe	Main balance	Main balance	3.0% max	5.0% max
Ni	-	-	Main balance	-
Cr	-	-	-	Main balance

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Date September 17

Production Method:

Induction furnace.

Size & Packaging:

Available to customers' requirements.

Chemical analysis in wt%				
Grade	BATS 79	BATS L	BATS 2	GRAINAL
B	0.5 - 1.0%	2.0 - 2.5%	1.7 - 2.5%	0.5 - 0.6%
Al	10.0 - 20.0%	6.0 - 10.0%	10.0 - 20.0%	12.5 - 14.0%
Ti	15.0 - 25.0%	44.0 - 50.0%	25.0 - 35.0%	19.5 - 21.0%
Si	4.0 - 6.0%	4.0 - 6.0%	8.0 - 12.0%	2.5 - 5.0%
Zr	3.0 - 5.0%	3.0 - 5.0%	-	3.25 - 4.0%
Mn	5.0 - 10.0%	5.0 - 8.0%	-	7.5 - 8.25%
C	-	-	-	0.75% max

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Production Method:

Induction furnace.

Size & Packaging:

Hypercal available in two standard sizes: 50 x 2.5mm (2in x 8 mesh)
or 25 x 2.5mm (1in x 8 mesh).

FeSiZr available to customers' requirements.

TiSi available to customers' requirements.

Chemical analysis in wt%		Chemical analysis in wt%		Chemical analysis in wt%	
Grade	Hypercal	Grade	FeSiZr	Grade	TiSi
Ba	9.0 - 12.0%	Si	45.0 - 55.0%	Ti	41.0 - 45.0%
Ca	8.50 - 13.0%	Zr	30.0 - 40.0%	Si	45.0 - 52.0%
Al	19.0 - 21.0%	C	0.50% max	Al	4.0% max
Si	38.0 - 46.0%	S	0.02% max	V	1.5% max
		P	0.04% max	C	0.35% max
		Fe	Main balance	S	0.03% max
				P	0.03% max
				Sn	0.75% max
				Fe	Main balance

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Ferro Titanium Powder (Low Carbon)



Production Method:

Induction furnace melted.

Size & Packaging:

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

Chemical analysis in wt%				
Grade	FeTi 25%	FeTi 30%	FeTi 40%	FeTi 70%
Ti	23.0 - 27.0%	28.0 - 32.0%	38.0 - 42.0%	68.0 - 72.0%
Al - High Purity Grade	1.0% max	1.0% max	1.0% max	-
Al - Standard Grade	7.0% or 3.5% max	7.0% or 3.5% max	7.0% or 3.5% max	5.0% max
Si	2.0% max	2.0% max	2.0% max	2.0% max
C	0.10% max	0.15% max	0.15% max	0.15% max
S	0.02% max	0.02% max	0.02% max	0.02% max
P	0.03% max	0.03% max	0.03% max	0.03% max
V - High Purity Grade	0.5% max	0.5% max	0.5% max	-
V - Standard Grade	2.5% max	2.5% max	2.5% max	3.5% max

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Ferro Silico Titanium Powder (Low Carbon)



Production Method:

Induction furnace melted.

Size & Packaging:

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

Chemical analysis in wt%			
Grade	FeSiTi 15%	FeSiTi 35%	FeSiTi 45%
Ti	17.0 - 23.0%	20.0 - 24.0%	28.0 - 32.0%
Al	5.0% max	5.0% max	5.0% max
Si	13.0-17.0%	32.0-36.0%	42.0-46.0%
C	0.10% max	0.15% max	0.20% max
S	0.02% max	0.02% max	0.02% max
P	0.03% max	0.03% max	0.03% max
V - High Purity Grade	0.5% max	0.5% max	0.5% max
V - Standard Grade	2.5% max	2.5% max	2.5% max

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