

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.

AMG Superalloys UK Limited
Fullerton Road,
Rotherham,
South Yorkshire S60 1DL
England

Telephone:
+44 (0) 1709 828500
Fax:
+44 (0) 1709 828367

Email:
info@amg-s.com
Web:
www.amg-s.com

Ferro Titanium 70%

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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BATS & Grainal Alloys

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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Other Products

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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