

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
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High Purity Degassed Chromium Briquettes & Nitrided Chromium Briquettes

Production Method:

2 step process with aluminothermic reaction and high temperature vacuum degassing.

Size & Packaging:

Available to customers' packing requirements, available in briquettes.

Chemical analysis in wt%

Grade	HPD Cr Brq
Cr	min 99.70%
Fe	0.25% max
Si	0.10% max
Al	0.015% max
O	0.05% max
N	0.005% max
C	0.05% max
S	0.01% max
P	0.005% max

Chemical analysis in wt%

Grade	Cr 10N Brq
Cr	min 88.4%
N	8.5 – 11.0%
Fe	0.50% max
Si	0.10% max
Al	0.10% max
O	0.10% max
C	0.02% max
S	0.02% max
P	0.005% max

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High Purity Degassed Chromium Briquettes Low Sulphur & Ultra Low Sulphur

Production Method:

2 step process with aluminothermic reaction and high temperature vacuum degassing.

Size & Packaging:

Available to customers' packing requirements, available in briquettes.

Chemical analysis in wt%

Grade	HPD Cr Brq LS
Cr	min 99.70%
Fe	0.25% max
Si	0.10% max
Al	0.015% max
O	0.05% max
N	0.005% max
C	0.05% max
S	10ppm max
P	0.005% max

Chemical analysis in wt%

Grade	HPD Cr Brq ULS
Cr	min 99.70%
Fe	0.25% max
Si	0.10% max
Al	0.015% max
O	0.05% max
N	0.005% max
C	0.05% max
S	5ppm max
P	0.005% max

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Chromium Metal

Low Nitrogen Grade

SD50 & SD25

Production Method:

Aluminothermic reaction.

Size & Packaging:

Available to customers' requirements.

Chemical analysis in wt%

Grade	SD50 Cr
Cr	min 99.4%
Fe	0.25% max
Si	0.10% max
Al	0.10% max
O	0.10% max
N	50ppm max
C	0.02% max
S	0.01% max
P	0.005% max

Chemical analysis in wt%

Grade	SD25 Cr
Cr	min 99.4%
Fe	0.25% max
Si	0.10% max
Al	0.10% max
O	0.10% max
N	25ppm max
C	0.02% max
S	0.01% max
P	0.005% max

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Chromium Metal Regular Grade & Vacuum Melting Grade

Production Method:

Aluminothermic reaction.

Size & Packaging:

Available to customers' requirements.

Chemical analysis in wt%

Grade	REG Cr	VMG Cr	VMG (Low Al) Cr
Cr	min 99.2%	min 99.4%	min 99.4%
Fe	0.50% max	0.25% max	0.25% max
Si	0.20% max	0.10% max	0.10% max
Al	0.20% max	0.10% max	0.015% max
O	0.20% max	0.10% max	0.20% max
N	0.03% max	0.02% max	0.02% max
C	0.03% max	0.02% max	0.02% max
S	0.02% max	0.01% max	0.01% max
P	0.005% max	0.005% max	0.005% max

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High Carbon Chromium Metal

Production Method:

Aluminothermic reaction.

Size & Packaging:

Available to customers' requirements.

Chemical analysis in wt%

Grade	HCCr (CrC)
Cr	min 88.0%
C	9.0 – 11.0 %
Fe	0.75% max
Si	0.30% max
Al	0.20% max
O	0.10% max
N	0.03% max
S	0.03% max
P	0.01% max

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Chromium Metal Powder

Production Method:

Aluminothermic reaction.

Size & Packaging:

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

Chemical analysis in wt%

Grade	REG Cr	VMG Cr	VMG (Low Al) Cr
Cr	min 99.2%	min 99.4%	min 99.4%
C	0.03% max	0.02% max	0.02% max
Fe	0.50% max	0.35% max	0.35% max
Al	0.20% max	0.10% max	0.015% max
Si	0.15% max	0.10% max	0.10% max
S	0.02% max	0.01% max	0.01% max
P	0.01% max	0.01% max	0.01% max

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Chromium Carbide, High Carbon Chromium & Extra High Carbon Chromium Powder



Production Method:

Aluminothermic reaction.

Size & Packaging:

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

Chemical analysis in wt%

Grade	High C Cr (Cr ₇ C ₃)	High C Cr (Cr ₇ C ₃)	Chromium Carbide (Cr ₃ C ₂)	Extra High C Cr (Cr ₃ C ₂ - C)
Cr	min 88.0%	min 86.5%	min 85.5%	min 74.0%
C	9.0 - 11.0%	10.5 - 12.5%	12.8 - 13.8%	18.0 - 24.0%
Fe	1.0% max	1.0% max	1.0% max	1.0% max
Al	0.20% max	0.20% max	0.20% max	0.50% max
Si	0.30% max	0.30% max	0.30% max	0.30% max
S	0.03% max	0.03% max	0.03% max	0.03% max
P	0.01% max	0.01% max	0.01% max	0.01% max

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Speciality Chromium Alloy Powders

Production Method:

Aluminothermic reaction.

Size & Packaging:

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

Chemical analysis in wt%

Grade	Nitrided Cr – CrN	Chromium 90–Cr90
Cr	min 88.2%	85.5 - 90.0%
C	0.05% max	0.05% max
Fe	0.50% max	Main balance
Al	0.20% max	0.20% max
Si	0.15% max	0.50% max
S	0.02% max	0.20%max
P	0.01% max	0.20% max
N	8.0 - 11.0%	-

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