

## 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

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## High Carbon Chromium Metal

- Atomised hardfacing alloys for thermal spraying

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## Nickel Boron

- Atomised hardfacing alloys for thermal spraying

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## 70% Ferro Titanium

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

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## Ferro Boron

- Magnet alloys
- Steels

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## Hypercal

- Steels
  - Cast irons
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These products are supplied in accordance with a Quality Assurance system which meets the standards of ISO9001 and AS9100

Date April 18

# 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<br>(Cr <sub>7</sub> C <sub>3</sub> ) | High C Cr<br>(Cr <sub>7</sub> C <sub>3</sub> ) | Chromium Carbide<br>(Cr <sub>3</sub> C <sub>2</sub> ) | Extra High C Cr<br>(Cr <sub>3</sub> C <sub>2</sub> - 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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## 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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