

Cr_2AlC | MAX Phase



Chromium Aluminium Carbide Powder

Catalogue no -

NS6130-12-001685

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Phase

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MAX phases have attracted a lot of interest in the last years due to their unique combination of properties, bridging the gap between ceramics and metals. They combine the good properties of conventional MAX phases such as high elastic modulus, low density, high thermal and electrical conductivities, excellent thermal shock resistance and damage tolerance, with an outstanding oxidation resistance.

Cr₂AlC belongs to the Mn+1AX_n phases, where M is a transition metal, A an A group element and X represents either C or N, a class of nanolaminates which have attracted considerable attention within the last decade due to their unusual combination of properties.

Quick Facts

Product	:	Chromium Aluminum Carbide Powder
Stock No	:	NS6130-12-001685
CAS	:	12179-41-8
Molecular Formula	:	Cr ₂ AlC
Molecular Weight	:	142.98g/mol
Form	:	Powder
Colour	:	Dark Gray to Black



Packing Sizes:

25Gms, 50Gms, 100Gms
500Gms & Bulk Orders



Properties:

- ✓ High Melting Point
- ✓ High elastic modulus
- ✓ Refractoriness
- ✓ Oxidation/Corrosion Resistance
- ✓ Damage Tolerance
- ✓ Machinability
- ✓ Electrical/Thermal Conductivity

Applications:

- ✓ Ceramic materials
- ✓ Electronic materials
- ✓ High temperature structural materials
- ✓ Electrode brush materials
- ✓ Chemical anti-corrosion materials
- ✓ High temperature heating materials

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20ZICE4588C



19ZAZGO1274G



20ZICE4588M

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