

Ti_3AlC_2 | MAX Phase







Titanium Aluminium Carbide Powder



Catalogue no -

NS6130-12-001042

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Ti₃AlC₂ | MAX Phase
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Titanium aluminium carbide, Ti₃AlC₂, as one of the most promising advanced ceramics belonging to a member of the so-called MAX phases, has attracted increasing attention in recent years because of its unique combination of both metal and ceramic properties. Like metals, it has excellent electrical conductivity, high thermal conductivity, and high machinability. Like ceramics, it has low thermal expansion coefficient, high melting point, strength, and thermal stability. All of these prominent properties make Ti₃AlC₂ a potential material for various functional and structural applications.

Quick Facts

Product	:	Titanium Aluminium Carbide Powder
Stock No	:	NS6130-12-001042
CAS	:	196506-01-1
Molecular Formula	:	Ti ₃ AlC ₂
Molecular Weight	:	194.605 g/mol
Density	:	2.36g/cm ³
Melting Point	:	2100 °C
Thermal Conductivity	:	32-37W/m.k
Resistivity	:	0.35±0.03μΩ.m
Form	:	Powder
Colour	:	Gray



Packing Sizes:

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

Properties:

- ✓ Excellent electrical conductivity
- ✓ High thermal conductivity
- ✓ High machinability
- ✓ Low thermal expansion coefficient
- ✓ High melting point

Applications:

- ✓ Li-ion batteries
- ✓ Pseudo capacitors
- ✓ Super capacitor electrodes
- ✓ Reinforcement in composites
- ✓ Replacing layered transition metal oxides

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