

Ti_3GeC_2 | MAX Phase



Titanium Germanium Carbide Powder

Catalogue no -

NS6130-12-001692

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Ti₃GeC₂ | MAX Phase
Catalogue no - **NS6130-12-001692**

Ti₃GeC₂ is one of the potential MAX phase compounds, for which, production and processing methods are yet to be optimized. Recently, the interest in nanolaminated ternary Mn+1AX_n carbides and nitrides, so-called MAX-phases, has grown significantly. Here, M is an early transition metal, A is a p-element, usually belonging to the groups IIIA and IVA, and X is either carbon or nitrogen. This is due to the fact that these layered materials exhibit a unique combination of metallic and ceramic properties, including high strength and stiffness at high temperatures, resistance to oxidation and thermal shock, as well as high electrical and thermal conductivity.

Quick Facts

Product	:	Titanium Germanium Carbide
Stock No	:	NS6130-12-001692
CAS	:	12179-41-8
Molecular Formula	:	Ti ₃ GeC ₂
Molecular Weight	:	240.2g/mol
Form	:	Powder
Colour	:	Dark Gray to Black



Packing Sizes:

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

Properties:

- ✓ Exceedingly damage-tolerant
- ✓ Thermal-shock-resistant
- ✓ Good electrical and thermal conductors
- ✓ Thermal shock resistant
- ✓ Damage tolerant

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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