

Ti₃SiC₂ | MAX Phase



Titanium Silicon Carbide Powder

Catalogue no -

NS6130-12-000617

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There are more than ten MAX phase systems and more than fifty MAX phases. This work is focused to produce Ti₃SiC₂ MAX phase using Si, C, TiC powders. The MAX phases constitute a group of ternary ceramics which has received intense attention over the last decade due to their unique combination of properties. The Ti₃SiC₂ is the most well studied MAX phase to date and it has turned out to be a promising candidate for high temperature applications. It is oxidation resistant, refractory and not susceptible to thermal shock. It can be machined with conventional tools, which is of great technological importance.

Quick Facts

Product	:	Titanium Silicon Carbide Powder
Stock No	:	NS6130-12-000617
CAS	:	12202-82-3
Molecular Formula	:	Ti ₃ SiC ₂
Molecular Weight	:	195.71g/mol
Form	:	Powder
Colour	:	Dark gray



Packing Sizes:

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

Properties:

- ✓ High fracture toughness
- ✓ Low hardness to elastic modulus ratio
- ✓ Excellent damage tolerance
- ✓ Good thermal shock
- ✓ Oxidation resistance
- ✓ Good electric conductivities

Applications:

- ✓ Aerospace engine (procreative coating)
- ✓ Nano-adsorption
- ✓ Biosensors
- ✓ Ion sieving
- ✓ Catalysis
- ✓ Lithium-ion batteries
- ✓ Super capacitors
- ✓ Lubrication
- ✓ Jet engine applications

INTELLIGENT MATERIALS PVT LTD

Derabassi
Punjab (140507)
INDIA

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED

Chapel House,
Chapel St Cheshire,
CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

NANOSHEL LLC

3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States

+1 646 470 4911



20ZICE4589C



19ZAZGO1274G



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