

NS6130-02-290

TITANIUM CARBIDE

Nanoparticles

Quick Facts

Product	:	Titanium Carbide Nanoparticles
Stock No	:	NS6130-02-290
CAS	:	12070-08-5
Molecular Formula	:	TiC
Form	:	Powder

Purity
99.9%

Technical Specification

Molecular Weight	Density	Melting Point	APS
59.89 g/mol	N/A	3160°C	<100nm

Titanium carbide is the binary compound and is an extremely hard refractory ceramic material (Mohs 9-9.5) similar to tungsten carbide. Titanium carbide is used in preparation of cermets, which are frequently used to machine steel materials at high cutting speed. It is also used as an abrasion-resistant surface coating on metal parts, such as tool bits and watch mechanisms. Titanium carbide is also used as a heat shield coating for atmospheric reentry of spacecraft.

Application

- ✓ Used for abrasion-resistant surface coating on metal parts, such as tool bits.
- ✓ Used for heat shield coating for atmospheric return of spacecraft.
- ✓ Used in the production of wear-resistant materials, sharp tools, etc



TiC
APS <100nm



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20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

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