



TITANIUM DIBORIDE

Titanium Diboride (TiB₂) is a hard material with high strength and high wear resistance at elevated temperatures. The high density, combined with the high elastic modulus and high compressive strength, have lead to its use in armour components. Due to its high hardness, extreme melting point and chemical inertness, Titanium Diboride (TiB₂) is a candidate for a number of applications. The chemical inertness and good electrical conductivity of TiB₂ have led to its use as cathodes in cells for primary aluminium smelting. It also finds use as crucibles for handling molten metal and as metal evaporation boats.



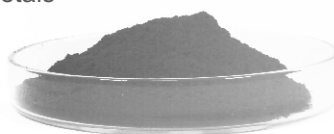
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APPLICATIONS

- ✓ Use in seals, wear parts
- ✓ Cutting tools.
- ✓ Increase strength and fracture toughness of the matrix.
- ✓ Use as crucibles for handling molten metals



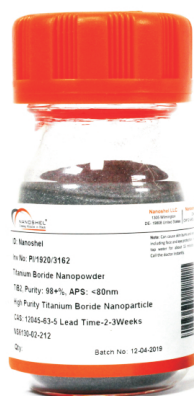
SPECS

- ✓ Purity: 99.9%
- ✓ Molecular Weight: 69.489 g/mol
- ✓ Color: Gray
- ✓ Density: 4.52 g/cm³
- ✓ Melting Point: 3230 °C
- ✓ Poisson's Ratio: 0.11
- ✓ Young's Modulus: 290 GPa

All types of particles size are available in micro and nano range.

CATALOGUE NO.

• NS6130-02-212



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