GNPGraystar
Specialty Materials
AN ISO 9001 CERTIFIED COMPANY

TECHNICAL DATA SHEET
Titanium Diboride Powder - TiB_2

Typical Chemistry

Boron (B)	29 - 32 %
Carbon (C)	< 0.5 %
Oxygen (O)	< 1.0 %
Nitrogen (N)	< 0.5 %
Iron (Fe)	< 0.2 %

Typical Sizing

	d10	d50	d90
Hot Press Powder	0.5-1.2 µm	2.5-5.0 µm	5.0-9.0 µm

Remarks:
- Special sizing available upon request.
- Based on Malvern 2000

Description:
GNPGraystar's Titanium Diboride (chemical formula TiB_2) is an extremely hard ceramic material produced by a continuous chemical process to create a high purity powder. These flat, hexagonal powder. These flat, hexagonal platelets have superior hardness, corrosion, and oxidation resistance, and a high melting point (3225°C). Unique among ceramic materials, it is also electrically conductive, allowing it to be formed into complex shapes using EDM.

Applications:
GNPGraystar's Titanium Diboride finds use in aluminum evaporation boats, armor applications, complex sinterable shapes, anti-friction materials cathode materials in aluminum smelting, composites, and more.

info@GNPGraystar.com

Rev. 02/2020

Northern Office
37 John Glenn Dr.
Amherst, NY 14228
716.759.6600

www.GNPGraystar.com

Southern Office
9 Simmonsville Rd.
Bluffton, SC 29910
843.815.5600