

Number PD-5123 Issue 5-31.07.2007

TITANIUM DIBORIDE GRADE D, GRADE SE, GRADE F

Chemical Formula TiB₂

Chemical Name Titanium Diboride

Description of Product Greyish powder

HS Number 28500090

Grades Available Product Designation

Titanium Diboride Grade De) Titanium Diboride Grade SEe) Titanium Diboride Grade Fe)

Chemical Characteristics

(Mass fraction in % [cg/g]; ppm [µg/g])

	Grade D	Grade SE	Grade F
B C O N Fe	min. 30.0 % max. 0.5 % max. 1.1 % max. 0.6 % max. 0.1 %	30.0 % 0.5 % 1.5 % 0.7 % 0.3 %	min. 29.5 % max. 0.4 % max. 2.5 % max. 0.5 % max. 0.1 %
Crystallographic Phases Crystal Structure	Hexagonal	Hexagonal	Hexagonal
Physical Characteristics			
Particle Size Distribution ¹⁾ D 10 % D 50 % D 90 %	0.7 - 2.0 μm 3.5 - 6.0 μm 6.5 - 10.0 μm	0.7 - 2.0 μm 3.5 - 6.0 μm 6.5 - 10.0 μm	0.5 - 1.2 μm 2.5 - 3.5 μm 4.0 - 7.0 μm

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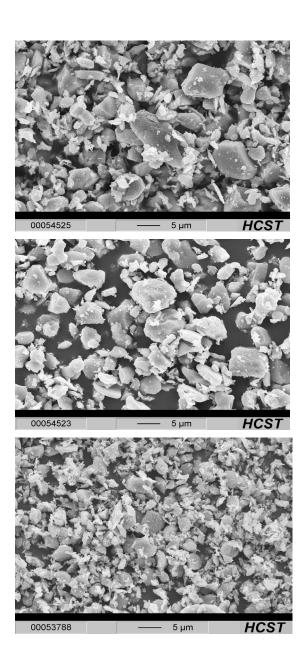
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SEM Photomicrograph²⁾ scale see photograph, TiB₂ Grade D

SEM Photomicrograph²⁾ scale see photograph, TiB₂ Grade SE

SEM Photomicrograph²⁾ scale see photograph, TiB2 Grade F





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Packaging 50 kg in 60 l steel drums with polyethylene inlet.

9 drums on one pallet CP 3 (1140 x 1140 mm) = 1 packaging unit of 450 kg or 6 drums on one pallet CP 5 (760 x 1140 mm) = 1 packaging unit of 300 kg.

Grade F:

25 kg in 30 l steel drums with polyethylene inlet = 1 packaging unit of 100 kg.

Other packaging unit/quantity on request.

Storage and Handling Storage and handling are subject to the rules and regulations in the country of

use. Store in a closed container.

To prevent quality problems, this boride material should be stored under inert gas. Titanium Diboride (TiB2) and other boride compounds are susceptible to oxidation over time as they are exposed to the air. Opening the product packaging in the presence of moisture can eventually result in oxygen content increasing above the

material's measured values.

Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)

none.

Documentation An inspection document in accordance with EN 10204 is supplied with every

shipment.

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