

TITANIUM NITRIDE TiN (GRADE A, B, C)

Description of Product TiN is used in the production of solid titanium nitride grades of hardmetal in the manufacture of mixed crystal and for cermet tools. Titanium nitride is available in three standard grades.

Grades Available **Product Designation**
Grade A
Grade B
Grade C

Chemical Characteristics¹⁾

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

	Grade A		Grade B		Grade C	
N	min.	20.0 %	min.	20.0 %	min.	20.0 %
C	max.	0.1 %	max.	0.1 %	max.	0.2 %
O	max.	0.6 %	max.	1.1 %	max.	1.5 %
Al	max.	100 ppm	max.	100 ppm	max.	100 ppm
Ca	max.	100 ppm	max.	100 ppm	max.	100 ppm
Fe	max.	2500 ppm	max.	2500 ppm	max.	2500 ppm
S	max.	100 ppm	max.	100 ppm	max.	100 ppm
Si	max.	100 ppm	max.	100 ppm	max.	200 ppm

Physical Characteristics

Fisher number 2.0 - 5.0 µm 1.3 - 1.9 µm 0.8 - 1.2 µm
(as supplied)

1) Information on chemical analytical methods and list of analyzed items on request.

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 Issue 0-15.09.2005
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Packaging

Product Designation	Packaging according to transport regulations		Material Number
	Packaging	Packaging unit	
Titanium Nitride Grade A	25 kg in a specially coated 15 l steel drum with a polyethylene bag.	200 kg in 8 drums on CP 1 pallet.	01000357 (CPS)
Titanium Nitride Grade A	50 kg in a specially coated 30 l steel drum with a polyethylene bag	300 kg in 6 drums on CP 5 pallet.	01021949
Titanium Nitride Grade B	25 kg in a specially coated 15 l steel drum with a polyethylene bag.	200 kg in 8 drums on CP 1 pallet.	01000358 (CPS)
Titanium Nitride Grade B	50 kg in a specially coated 30 l steel drum with a polyethylene bag	300 kg in 6 drums on CP 5 pallet.	01024789
Titanium Nitride Grade C	10 kg in a specially coated 15 l steel drum with a polyethylene bag.	80 kg in 8 drums on CP 1 pallet.	01000359 (CPS)
Titanium Nitride Grade C	50 kg in a specially coated 60 l steel drum with a polyethylene bag.	300 kg in 6 drums on CP 5 pallet.	01021945

Other kinds of packaging are available on request.

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

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.

Höganäs Germany GmbH

Im Schleeke 78-91
 38642 Goslar/Germany

Säckinger Straße 51
 79725 Laufenburg/Germany

Phone +49 5321 751-53753

<https://www.hoganas.com/en/contact/>

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