

TUNGSTEN TITANIUM CARBIDE (HIGH VACUUM 100/300)

Description of Product The WTiC is the most important mixed carbide of the cemented carbides. The area of application for WTiC is the production of hardmetal mixtures. This product is used for the manufacture of cemented carbide products.

Grades Available

Product Designation
50/50 HV 100
50/50 HV 300
70/30 HV 100
70/30 HV 300

Chemical Characteristics¹⁾

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

	(W, Ti)C 50/50 HV 100 / HV 300	(W, Ti)C 70/30 HV 100 / HV 300
W	46.0 - 47.0 %	64.7 - 66.0 %
Ti	39.6 - 40.5 %	23.0 - 24.6 %
C _{total}	12.7 - 13.1 %	9.8 - 10.2 %
C _{free}	max. 0.3 %	max. 0.4 %
C _{combined}	min. 12.4 %	min. 9.5 %
O (HV 100)	max. 0.5 %	max. 0.5 %
O (HV 300)	max. 0.2 %	max. 0.2 %
N	max. 1500 ppm	max. 1500 ppm
Ca	max. 100 ppm	max. 100 ppm
Fe	max. 800 ppm	max. 600 ppm
Na + K	max. 50 ppm	max. 50 ppm
Si	max. 200 ppm	max. 200 ppm

If required, the information on the solid solution can be confirmed by x-ray diffraction.

Physical Characteristics

Grades	Fisher number (as supplied)
50/50 HV 100	0.9 - 1.3 µm
50/50 HV 300	2.5 - 3.5 µm
70/30 HV 100	0.9 - 1.3 µm
70/30 HV 300	2.5 - 3.5 µm

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

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 Issue 0-15.09.2005
 Former No. 3.1.2.PD-HML 703
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Packaging

Product Designation	Packaging according to transport regulations		Material Number
	Packaging	Packaging unit	
Tungsten Titanium Carbide 50/50 HV 100	25 kg in a specially coated 15 l steel drum with a polyethylene bag.	200 kg in 8 drums on CP 1 pallet.	01000227 (CPS)
Tungsten Titanium Carbide 50/50 HV 100	50 kg in a specially coated 30 l steel drum with a polyethylene bag	300 kg in 6 drums on CP 5 pallet.	01021820
Tungsten Titanium Carbide 70/30 HV 100	25 kg in a specially coated 15 l steel drum with a polyethylene bag	200 kg in 8 drums on CP 1 pallet.	01000234 (CPS)
Tungsten Titanium Carbide 70/30 HV 100	100 kg in a specially coated 60 l steel drum with a polyethylene bag	600 kg in 6 drums on CP 5 pallet.	01021825
Tungsten Titanium Carbide 50/50 HV 300	40 kg in a specially coated 15 l steel drum with a polyethylene bag.	320 kg in 8 drums on CP 1 pallet.	01000225 (CPS)
Tungsten Titanium Carbide 50/50 HV 300	100 kg in a specially coated 60 l steel drum with a polyethylene bag	600 kg in 6 drums on CP 5 pallet.	01021835
Tungsten Titanium Carbide 70/30 HV 300	40 kg in a specially coated 15 l steel drum with a polyethylene bag.	320 kg in 8 drums on CP 1 pallet.	01000232 (CPS)

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.

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