

Titanium Carbonitride $Ti(C,N)$

Application

Titanium carbonitride is the basis for the production of "Cermets" type cutting tools and for high abrasion resistant $Al_2O_3 - Ti(C,N)$ advanced ceramics.

Chemical Characteristics

Elements	Ti (C,N) 30/70	Ti (C,N) 50/50	Ti (C,N) 70/30
	%	%	%
C total	6.0 – 7.0	9.9 – 11.1	12.6 – 14.0
N	15.2 – 16.6	10.3 – 11.5	7.2 – 8.4
standard			
C free	0.15 max	0.30 max	0.45 max
O	0.6 max	0.5 max	0.4 max
fine			
C free	-	0.45 max	-
O	-	0.7 max	-

All Grades

Elements	%	Elements	%
Al	0.01 max	Fe	0.03 max
Ca	0.01 max	S	0.01 max

Physical Characteristics

Grade	FSSS
	μm
fine	0.9 – 1.3
standard	1.3 – 2.1



Packing

- 50 kg in 40 l coated steel drums with rubber sealing
- Material in PE- Bag

Maximum Lot Size

- 1.000 kg

Inspection certificate according
DIN EN 10204 3.1