

Materialdatenblatt für ICX-templant®-Implantate aus Rein-Titan Grad 4KV

Titan Grade 4KV

TI CP4 Standard Grade CG Bar - 4,10 mm (0.1614") Dia.

Specifications: EN 1024 3.1B Rev: 95; ISO 5832-2 Gr4B REv: 99; ASTM F 67 Gr4 Chemistry Only Rev: 00

Size: 4,10 mm (0.1614") Dia. +0 mm / -0.05 mm (-0.0019")

Length: 3,0 mm (118.1") +0 mm / -156 mm (+0" / -6.1")

Chemical Report (Wt.%) ca.-Werte

C	Fe	O	H	N	Titan
< 0.080	<0.500	< 0.400	< 0.008	< 0.050	98.962

Hydrogen

Hydrogen (Wt.%) .0051

As shipepd properties

UTS #1 (Mpa)	YS 0.2%#1 (Mpa)S	EL#1 (%)	RA#1 (%)
843 Zugfestigkeit	726 Dehngrenze	21	44

Hardness (HRC)

24

Metallography Results

Grain Size (ASTM): 8

Material Data

Melt/Source: TIMET

Mechanische Eigenschaften von verschiedenen Rein-Titan-Klassen

Grade	Zugfestigkeit	0,2% Dehngrenze (Rp0,2)
Rein-Titan Grad 1	min. 240 MPa	min. 170 MPa
Rein-Titan Grad 2	min. 345 MPa	min. 275 MPa
Rein-Titan Grad 3	min. 450 MPa	min. 380 MPa
Rein-Titan Grad 4	min. 550 MPa	min. 483 MPa
Rein-Titan Grad 4KV alle templant®-Implantate	min. 800 MPa	min. 700 MPa
Titanlegierung Grad 5 Ti6Al4V	min. 860 MPa	min. 795 MPa