

MATERIAL DATA SHEET

TITANIUM 3.7165 ELI (Medical Grade)

CAD/CAM DISC Blank

Valid Norms:	ASTM F 136
Application:	Medical / Dental
Finish:	machined surface
Diameter:	> 98 – 100 mm
Shape:	round/round with step / acc. drawing
Tolerances:	different, on agreement
Thickness:	8.00 / 10.00 / 12.00 / 13.50 / 14.00 / 15.00 / 16.00 / 17.50 - up to 28.00 mm all others on request

Chemical

Composition:	Fe	O	H	C	N	Al	V	Ti	Others
Max	0.25	0.13	0.012	0.08	0.05	5.5 - 6.5	3.5 – 4.5	Balance	0.01 each

Mechanical properties

Tensile strength:	min. 825 MPa
Yield Strength:	min. 760 MPa
Hardness HV10:	280 - 330

Physical properties

Modulus of Elasticity 20 °C:	110 [GPa]
Specific Density:	4,4 [kg/dm ³]
Coefficient of Thermal Expansion 25 - 500 °C:	10,3 [10 ⁻⁶ *K-1]
Oxidation temperature:	hot oxidation at temperatures of 400 and 800 °C