



JUNE 2018

LABORATORY INFORMATION

TITANIUM TECHNICAL DATASHEET FOR SIMEDA® AND CONNECT+® PROSTHESIS

Ti6Al4V-ELI acc. to ASTM F136 & ISO 5832-3

Chemical composition (wt%)

Ti %	Al %	V %	Fe %	O %	C %	N %	H %
88,5 – 91	5,5 – 6,5	3,5 – 4,5	Max. 0,25	Max. 0,13	Max. 0,08	Max. 0,05	Max. 0,012

Mechanical properties

Tensile strength	[MPa]	> 860
Young's modulus	[GPa]	110
Vickers Hardness	[HV10]	350

Physical properties

Density	[g/cm ³]	4,42
CTE – Coefficient of Thermal Expansion 20 – 500°C	[10 ⁻⁶ *K ⁻¹]	10,3
Liquidus temperature	[°C]	approx. 1650
Veneering temperature	[°C]	max. 795