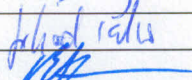


Data Sheet No.	MDS-001e	Revision	1.0
Description	Titanium Grade 5 Eli (Ti6Al4V)		
Applicable Standards	ASTM F136; DIN EN ISO 5832-3,		
Composition	Element	Per cent by weight (%)	
	Aluminium	5.5 to 6,5	
	Vanadium	3,5 to 4,5	
	Iron	max. 0,25	
	Carbon	max. 0,08	
	Oxygen	max. 0,13	
	Nitrogen	max. 0,05	
	Hydrogen	max. 0,0012	
	Titanim	Balance	
Structure	According to ETTC2 / ISO 20160: A2		
Microstructure	Free from α -case		
Physical properties			
Tensile strength	min. 860 MPa		
Yield strength	min. 795 MPa		
Elongation	min. 10 %		
Chemical properties	Corrosion resistant, Ion release in artificial saliva: max. 100 μ g/ cm ² / 7 days According to DIN EN ISO 10271 and DIN EN ISO 22674		
Biological properties	Biocompatible according to DIN EN ISO 10993-1 and DIN EN ISO 7405		

Issued by: Dr. Gerhard Polzer		Revision 1.0	Date: 21.01.2016
Released by: Bernd Gaddum			Page 1 of 1