

Ti6Al4V / Titan Grade 5 / 3.7164

Standards and Specifications

AMS	4928 (bars), 4911 (sheets, plates)
ASTM	B 348 (bars), B 265 (sheets, plates)
Werkstoffleistungsblatt	3.7164
UNS	R56400

Chemical Composition

Element	Percentage by weight %	
	min.	Max.
Al	5,5	6,75
V	3,5	4,5
Fe	-	0,30
O	-	0,20
N	-	0,05
C	-	0,08
H	-	0,0125
Y	-	0,005
Others, single	-	0,10
Others, total	-	0,40
Ti	Rest	

Mechanical Properties 20 °C (annealed)

Tensile strength R_m	min. 900 MPa
Yield strength $R_{p0,2}$	min. 830 MPa
Elongation A_5	min. 10 %
Elongation after fracture Z	min. 25 %

Physical Properties

Density	4,43 g/cm ³
Specific heat	560 J/ (kg x K) at 20 °C
E-module	110.000 MPa