

material no.: 3.7165  
 UNS no.: R56400  
 designation: Titan Grade 5

**CHEMICAL REQUIREMENTS IN (%)**

	ASTM B348/381	DIN 17851
N, max.	0,05	0,05
C, max.	0,08	0,08
H, max.	0,015	0,015
Fe, max.	0,40	0,30
O, max.	0,20	0,20
Al	5,5 - 6,75	5,50 - 6,75
V	3,5 - 4,5	3,5 - 4,5
residuals, each, max.	0,1	0,10
residuals, total, max.	0,4	0,40
Ti	Bal.	Bal.

**MECHANICAL PROPERTIES**

	annealed	
	bar ASTM B348	forging ASTM B381
	bar D ≤ 150 mm DIN 17862	forging D ≤ 150 mm DIN 17864
R <sub>m</sub> (MPa)	≥ 895	≥ 900
R <sub>p0,2</sub> (MPa)	≥ 828	≥ 830
A (%)	≥ 10	≥ 8 ( ≥ 10: 10 mm ≤ D ≤ 80 mm)
Z (%)	≥ 25	≥ 20 ( ≥ 25: 10 mm ≤ D ≤ 80 mm)

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