

CHEMICAL REQUIREMENTS IN (%)

	ASTM B166/564	VdTÜV Werkstoffblatt 485
Ni, min.	44,5	Bal.
Cr	20,0 - 24,0	20,0 - 23,0
Co	10,0 -15,0	10,0 - 13,0
Mo	8,0 -10,0	8,0 -10,0
Fe, max.	3,0	2,00
Mn, max.	1,0	0,70
Al	0,8 - 1,5	0,60 - 1,50
C	0,05 - 0,15	0,050 - 0,100
Cu, max.	0,5	
Si, max.	1,0	0,70
S, max.	0,015	0,008
Ti, max.	0,6	0,20 - 0,50
B, max.	0,006	
P, max.		0,012
As, max.		0,010
Bi, max.		0,001
Pb, max.		0,007

MECHANICAL PROPERTIES

solution annealed	bar	forging	bar / forging
	ASTM B166	ASTM B564	
R _m (MPa)	≥ 655		680 - 950
R _{p0,2} (MPa)	≥ 240		≥ 300
R _{p1,0} (MPa)			≥ 330
A (%)	≥ 35		l ≥ 35, q/t ≥ 30
Av (J)			l ≥ 120, q ≥ 80
grain size			≤ 5

All information are supplied without liability.