

CHEMICAL REQUIREMENTS IN (%)

	ASTM B564/574	VdTÜV Werkstoffblatt 40	DIN 17744
Mo	15,0 - 17,0	15,00 - 17,00	15,0 - 17,0
Cr	14,5 - 16,5	14,50 - 16,50	14,5 - 16,5
Fe	4,0 - 7,0	4,00 - 7,00	4,0 - 7,0
W	3,0 - 4,5	3,00 - 4,50	3,0 - 4,5
Co, max.	2,5	2,50	2,5
C, max.	0,010	0,01	0,010
Si, max.	0,08	0,08	0,08
Mn, max.	1,0	1,00	1,0
V, max.	0,35	0,35	0,35
P, max.	0,04	0,025	0,020
S, max.	0,03	0,010	0,015
Ni	Rest	Rest	Rest
Cu, max.			0,50

MECHANICAL PROPERTIES
solution annealed

	bar D ≤ 88,9 mm ASTM B574	forging ASTM B564	bar D ≤ 250 mm D 90 mm	forging D 90 mm	bar D ≤ 100 mm DIN 17752
R _m (MPa)	≥ 690		700 - 950		≥ 690
R _{p 0,2} (MPa)	≥ 283		≥ 280		≥ 280
R _{p 1,0} (MPa)			≥ 300		≥ 300
A (%)	≥ 40		q/t ≥ 25 / l ≥ 35		≥ 35
Av (J)			q/t ≥ 72 / l ≥ 96		
hardness (HBW 2,5/62,5)					max. 240

All information are supplied without liability.