

material no.: 2.4605
 UNS no.: N06059
 designation: Alloy 59

CHEMICAL REQUIREMENTS IN (%)

	ASTM B564/574	VdTÜV Werkstoffblatt 505
Mo	15,0 - 16,5	15,0 - 16,5
Cr	22,0 - 24,0	22,0 - 24,0
Fe, max.	1,5	1,5
Co, max.	0,3	0,3
C, max.	0,010	0,010
Si, max.	0,10	0,10
Mn, max.	0,5	0,50
P, max.	0,015	0,015
S, max.	0,010	0,010
Ni	Bal.	Bal.
Al	0,1 - 0,4	0,1 - 0,4
Cu, max.	0,50	0,5

MECHANICAL PROPERTIES

solution annealed

	bar		forging	
	ASTM B574	ASTM B564	D ≤ 200 mm	D ≥ 200 mm
R _m (MPa)	≥ 690		690 - 900	650 - 900
R _{p 0,2} (MPa)	≥ 310		≥ 340	≥ 320
R _{p 1,0} (MPa)			≥ 380	≥ 360
A (%)	≥ 45		≥ 40	≥ 40
Av (J)			≥ 180	≥ 180 (D ≤ 300 mm)

All information are supplied without liability.