

material no.: 1.4539
 UNS no.: N08904
 designation: Alloy 904L

CHEMICAL REQUIREMENTS IN (%)

	ASTM A479	VdTÜV Werkstoffblatt 421	DIN EN 10088-3
C, max.	0,020	0,020	0,020
Mn, max.	2,00	2,00	2,00
P, max.	0,045	0,030	0,030
S, max.	0,035	0,010	0,010
Si, max.	1,00	0,70	0,70
Ni	23,0 - 28,0	24,00 - 26,00	24,0 - 26,0
Cr	19,0 - 23,0	19,0 - 21,0	19,0 - 21,0
Mo	4,0 - 5,0	4,0 - 5,0	4,0 - 5,0
Cu	1,0 - 2,0	1,2 - 2,0	1,20 - 2,00
N	0,10 max.	0,04 - 0,15	0,15 max.
Fe	Bal.		

MECHANICAL PROPERTIES

	solution annealed		forging		semi-finished / bar	
	bar	bar			D ≤ 160 mm	160 mm < D ≤ 250 mm
R _m (MPa)	≥ 490	530 - 720			530 - 730	
R _{p0,2} (MPa)	≥ 220	≥ 230	≥ 220		≥ 230	
R _{p1,0} (MPa)		≥ 260	≥ 250		≥ 260	
A (%)	≥ 35	l ≥ 40 / q ≥ 35			l ≥ 35	q ≥ 30
Av (J)		q/t ≥ 90 / l ≥ 120			l ≥ 100*	q ≥ 60*

* optional

All information are supplied without liability.