

material no.: 2.4816  
 UNS no.: N06600  
 designation: Alloy 600

**CHEMICAL REQUIREMENTS IN (%)**

	ASTM B166/564	VdTÜV Werkstoffblatt 305	DIN 17742
Ni, min.	72,0	72,0	72,0
Cr	14,0 - 17,0	14,00 - 17,00	14,00 - 17,00
Fe	6,0 - 10,0	6,0 - 10,0	6,0 - 10,0
Mn, max.	1,0	1,0	1,0
C, max.	0,15	0,10	0,025 - 0,10
Cu, max.	0,5	0,5	0,5
Si, max.	0,5	0,5	0,5
Al, max.		0,3	0,3
Ti, max.		0,3	0,3
S, max.	0,015	0,015	0,015
P, max.		0,015	0,020

**MECHANICAL PROPERTIES**

<b>annealed</b>	bar ASTM B166	forging ASTM B564	bar	forging	bar D ≤ 160 mm DIN 17752
R <sub>m</sub> (MPa)	≥ 550		550 - 750		≥ 550
R <sub>p 0,2%</sub> (MPa)	≥ 240		≥ 200		≥ 200
R <sub>p 1,0%</sub> (MPa)					≥ 230
A (%)	≥ 30		≥ 30		≥ 30
KV (J)			q ≥ 120, l ≥ 160	q/t ≥ 96	
hardness (HBW 2,5/62,5)					max. 195

**MECHANICAL PROPERTIES**

<b>solution annealed</b>		bar	forging	bar D ≤ 160 mm DIN 17752
R <sub>m</sub> (MPa)		500 - 700		≥ 500
R <sub>p 0,2%</sub> (MPa)		≥ 180		≥ 180
R <sub>p 1,0%</sub> (MPa)				≥ 210
A (%)		≥ 35		≥ 35
KV (J)		q ≥ 120, l ≥ 160	q/t ≥ 96	
hardness (HBW2,5/62,5)				max. 185

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