

material no.: 1.4501
 UNS no.: S32760
 designation: Superduplex

CHEMICAL REQUIREMENTS IN (%)

	ASTM A182F55 / A276 / A479	DIN EN 10088-3
C, max.	0,030	0,030
Mn, max.	1,00	1,00
P, max.	0,030	0,035
S, max.	0,010	0,015
Si, max.	1,00	1,00
Ni	6,0 - 8,0	6,0 - 8,0
Cr	24,0 - 26,0	24,0 - 26,0
Mo	3,0 - 4,0	3,0 - 4,0
N	0,20 - 0,30	0,20 - 0,30
Cu	0,50 - 1,00	0,50 - 1,00
W	0,50 - 1,00	0,50 - 1,00
PRE (%Cr + 3,3 x %Mo + 16 x %N)	≥ 40	

MECHANICAL PROPERTIES

solution annealed

bar / forging

bar

D ≤ 160 mm

forged / rolled

forged / rolled

R _m (MPa)	750 - 895	730 - 930
R _{p 0,2} (MPa)	≥ 550	≥ 530
A (%)	≥ 25	l ≥ 25
Z (%)	≥ 45	
Av (J)		l ≥ 100 (optional) ≤ 290
Härte	≤ 290 HB	HB (only for information)

The material complies with the requirements of MDS D57 Norsok for bars up to Ø 200 mm

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