

material no.: 2.4669
 UNS no.: UNS N0775
 designation: Alloy X750

CHEMICAL REQUIREMENTS IN (%)

ASTM B637

C, max.	0,08
Mn, max.	1,00
Si, max.	0,50
S, max.	0,01
Cr	14,00 - 17,00
Co, max.	1,00
Nb + Ta	0,70 - 1,20
Ti	2,25 - 2,75
Al	0,40 - 1,00
Fe	5,00 - 9,00
Cu, max.	0,50
Ni, min.	70,00

MECHANICAL PROPERTIES
solution annealed 1149°C, stabilized + precipitation hardened

bar / forging

Type 1

R _m (MPa)	≥ 965
R _{p 0,2} (MPa)	≥ 620
A (%)	≥ 8
hardness (HB)	≥ 262

MECHANICAL PROPERTIES
solution annealed at 1100°C bar / forging + precipitation hardened

Type 3

R _m (MPa)	1103 - 1276
R _{p 0,2} (MPa)	689 - 896
A (%)	≥ 20
Z (%)	≥ 20
hardness (HB)	267 - 363

MECHANICAL PROPERTIES
solution annealed at 982°C + precipitation hardened

bar / forging

bar / forging

Type 2 / D < 63,5 mm

Type 2 / 63,5 mm ≤ D ≤ 101,6 mm

R _m (MPa)	≥ 1170	≥ 1170
R _{p 0,2} (MPa)	≥ 790	≥ 790
A (%)	≥ 18	≥ 15
Z (%)	≥ 18	≥ 15
hardness (HB)	302 - 363	302 - 363