

INCOLOY 925 (UNS N09925)

INCOLOY alloy 925 (UNS N09925) is an agehardenable nickel-iron-chromium alloy with additions of molybdenum, copper, titanium and aluminum. INCOLOY alloy 925 is used in various applications requiring a combination of high strength and corrosion resistance.

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UNS N09925

Cr	Mn	Cu	Si	C	P	S	Fe	Ni	Mo	Ti	Al	Nb
19,5 22,5	max 1,0	1,5 3,0	max 1,0	Max 0,03	max 0,04	max 0,03	Min 22,0	42,0 46,0	2,5 3,5	1,9 2,4	0,1 0,5	Max 0,5

density (kg/dm³) 8,08

magnetizability no

thermal conductivity at 20 °C (W/m K) 25

specific heat capacity at 20 °C (J/kg K) 460

thermal expansion (K⁻¹)

20 – 100 °C: 10.0 x 10⁻⁶

20 – 200 °C: 10.5 x 10⁻⁶

20 – 300 °C: 10.5 x 10⁻⁶

20 – 400 °C: 10.5 x 10⁻⁶

	Yield Strength (Mpa) (20 C)	Tensile Strength (Mpa) (20 C)	Elongation A5 (%)	Hardness
Solution Annealed	271	685	56	76 HRB
Solution Annealed and Aged	832	1154	24	32 HRC