

Inconel (625) - Specifications

Description

This material has good corrosion resistance and tensile strength. This material is suitable for building complex parts for high temperature and high strength applications. It is expected to have good corrosion resistance in various corrosive environments.

Mechanical Properties*

	As Built	SR	HIP	SHT
Ultimate tensile strength	146 ksi	138 ksi	132 ksi	128 ksi
0.02 % Yield strength	97 ksi	93 ksi	57 ksi	61 ksi
Modulus	26 msi	27 msi	27 msi	27 msi
Elongation	42 %	36 %	50 %	41 %
Reduction of area	54 %	37 %	45 %	38 %
Hardness	29 HRC	13 HRC	-	-

* The properties may vary according to application and operation conditions. This information is for reference only. Specifications are subject to change without notice.

Composition*

Element	Typical Values (wt-%)
Ni	Balance ≥ 58.00
Cr	20.00 – 23.00
Mo	8.00 - 10.00
Nb	3.15 – 4.15
Fe	≤ 5.00
Ti	≤ 0.40
Al	≤ 0.40
C	≤ 0.10
Si, Mn	each ≤ 0.50
P, S	each ≤ 0.015

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