

Stainless Steel (17-4) - Specifications

Description

This material has good ductility and corrosion resistance. This material has also has high strength and is suitable for functional prototypes and small series products.

Mechanical Properties*

	As Built	HT1	HIP	Annealed
Ultimate tensile strength	151 ksi	211 ksi	166 ksi	175 ksi
0.02 % Yield strength	106 ksi	180 ksi	119 ksi	103 ksi
Elongation	17 %	11 %	12 %	12 %
Hardness	~ 30 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-%)
Cr	15 – 17.5
Ni	3 – 5
Cu	3 – 5
Mn	≤ 1
Si	≤ 1
S	≤ 0.03
Nb	0.15 – 0.45
C	≤ 0.07
P	≤ 0.04

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