



347 Stainless Steel

347 is an austenitic solution treated stainless steel material which contains niobium. This alloy is known for its excellent high-temperature resistance, good corrosion resistance, and stability in high-stress environments, making it ideal for applications involving elevated temperatures.

347 stainless is particularly useful in applications that require both good corrosion resistance and strength at elevated temperatures, like in chemical processing, aerospace, and power generation industries.

347 Stainless Steel Grades & Equivalents:

- ASTM A193 B8C CLASS 1
- ASTM A320 B8C CLASS 1
- ASTM A276 S34700
- ASTM A479 S34700
- BS4882 B8C
- 1.4550
- BS970 347S31

Typical Chemical Analysis

C	Si	Mn	P	S	Cr	Ni	Mo
0.080	1.000	2.000	0.045	0.030	17.00-19.00	9.00-12.00	
W	N	Cb/Nb	Ti	Co	Cu	Al	B
		10xC to 1.10					
V	Fe	Mg	Ta	Ca	O	Bi	Se
Sn	Zn	Pb	Y	Cb/Nb + Ta	Ni + Co	H	PREN

Typical Mechanical Properties

Tensile Strength	515 N/mm ² min
0.2% Proof Stress	205 N/mm ² min
Elongation	30%
Reduction of Area	50%
Hardness	223 HBw
Impacts	
Stress Rupture	
Other Remarks	Mechanicals may vary slightly depending on specification (above taken from ASTM A193)

Product Forms Available:

- Hexagon Head Bolts
- Hexagon Nuts
- Studbolts
- Socket Capscrews
- Socket Countersunk Screws
- Socket Setscrews
- & Many other special fasteners and bespoke machined parts

Products can be produced to customer drawings or relevant British (BS), American (ASME, ANSI), European (DIN, UNI) or International Standards (ISO).

The size ranges M3 to M120 Metric and 3/16" to 4.75" Imperial can be supplied. Thread forms include UNC, UNS, UNF, BSW, BSF, Whitworth, Metric, Metric Fine.



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