



310 Stainless Steel

310 is an austenitic stainless steel that combines excellent high temperature properties with good ductility and weldability. The high nickel & chromium offers good resistance to corrosion & oxidation. 310 has excellent strength at elevated temperatures.

310 is suitable for furnace parts, heat exchangers, chemical processing, and other high-heat industrial settings.

310 Stainless Steel Grades & Equivalents:

- ASTM A276 S31000
- ASTM A276 S31008
- ASTM A479 S31008
- AISI 310
- BS970 310S31

Typical Chemical Analysis

C	Si	Mn	P	S	Cr	Ni	Mo
0.08	1.50	2.00	0.045	0.030	24.0-26.0	19.0-22.0	
W	N	Cb/Nb	Ti	Co	Cu	Al	B
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 MPa min
0.2% Proof Stress	205 MPa min
Elongation	30%
Reduction of Area	40%
Hardness	
Impacts	
Stress Rupture	
Other Remarks	

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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