



316 Cold Drawn St/St

316 cold drawn is an austenitic solution treated corrosion resistant material which has been cold worked to provide minimum tensile strengths as described below.

316 cold drawn is used in a wide variety of industries & applications due to its versatility, strength and durability such as Oil & Gas, marine, chemical processing & pharmaceutical industries.

316 Cold Drawn St/St Grades & Equivalents:

- ISO3506 A4-70
- ISO3506 A4-80
- ISO3506 A4-100
- ASTM A193 B8M CLASS 2 *
- ASTM A320 B8M CLASS 2 *
- BS4882 B8MX *

Typical Chemical Analysis

C	Si	Mn	P	S	Cr	Ni	Mo
0.080	1.000	2.000	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00
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	1000 N/mm ² min class 100 800 N/mm ² min class 80 700 N/mm ² min class 70
0.2% Proof Stress	800 N/mm ² min class 100 600 N/mm ² min class 80 450 N/mm ² min class 70
Elongation	0.2d (mm) min class 100 0.3d (mm) min class 80 0.4d (mm) min class 70
Reduction of Area	
Hardness	
Impacts	
Stress Rupture	
Other Remarks	* Minimum tensile properties of ASTM A193, ASTM A320 & BS4882 are dictated by the size of the component, please enquire if you need further information.

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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