



304 Cold Drawn St/St

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

304 cold drawn is used in a wide variety of industries & applications due to its versatility, strength, and durability. From kitchen appliances to chemical processing equipment.

304 Cold Drawn St/St Grades & Equivalents:

- ISO3506 A2-70
- ISO3506 A2-80
- ISO3506 A2-100
- ASTM A193 B8 CLASS 2 *
- ASTM A320 B8 CLASS 2 *
- BS4882 B8X *

Typical Chemical Analysis

| C | Si | Mn | P | S | Cr | Ni | Mo |
|-------|-------|-------|-------|------------|-------------|------------|------|
| 0.080 | 1.000 | 2.000 | 0.045 | 0.030 | 18.00-20.00 | 8.00-11.00 | |
| 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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