



## UNS S31254CD Stainless Steel

UNS S31254CD is a grade of stainless steel that belongs to the super-austenitic family of stainless steels. The material is cold worked to provide minimum tensile strengths as described below. It is known for its excellent corrosion resistance and strength at higher temperatures.

UNS S31254CD fasteners are commonly used in applications where durability and resistance to corrosion are important, such as in marine environments or high-stress machinery.

### UNS S31254CD Stainless Steel Grades & Equivalents:

- ISO3506 A8-70
- ISO3506 A8-80
- ISO3506 A8-100

### Typical Chemical Analysis

<b>C</b>	<b>Si</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Cr</b>	<b>Ni</b>	<b>Mo</b>
0.030	1.00	2.00	0.040	0.030	19.0-22.0	17.5-26.0	6.0-7.0
<b>W</b>	<b>N</b>	<b>Cb/Nb</b>	<b>Ti</b>	<b>Co</b>	<b>Cu</b>	<b>Al</b>	<b>B</b>
					1.50		
<b>V</b>	<b>Fe</b>	<b>Mg</b>	<b>Ta</b>	<b>Ca</b>	<b>O</b>	<b>Bi</b>	<b>Se</b>
<b>Sn</b>	<b>Zn</b>	<b>Pb</b>	<b>Y</b>	<b>Cb/Nb + Ta</b>	<b>Ni + Co</b>	<b>H</b>	<b>PREN</b>

\*\* Carbon content for 304L / BS970 304S11 shall be  $\leq 0.030\%$

### Typical Mechanical Properties

Tensile Strength	1000 N/mm <sup>2</sup> min class 100 800 N/mm <sup>2</sup> min class 80 700 N/mm <sup>2</sup> min class 70
0.2% Proof Stress	800 N/mm <sup>2</sup> min class 100 600 N/mm <sup>2</sup> min class 80 450 N/mm <sup>2</sup> 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	

### 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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