



## 17-4PH Stainless Steel

17-4PH is a grade of martensitic precipitation hardened stainless steel which can be heat treated to approximately 44RC and an ultimate tensile strength of 1,300 MPa.

17-4PH is used in applications requiring high strength, hardness and corrosion resistance such as the petroleum, chemical and firearm industries.

### 17-4PH Stainless Steel Grades & Equivalents:

- ASTM A564 S17400\*\*
- ASME SA564 S17400\*\*
- 1.4542

### 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>
0.07	1.00	1.00	0.040	0.030	15.00-17.50	3.00-5.00	
<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>
		0.15-0.45			3.00-5.00		
<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>

### Typical Mechanical Properties in "A" Condition

Tensile Strength	
0.2% Proof Stress	
Elongation	
Reduction of Area	
Hardness	38 HRC max
Impacts	
Stress Rupture	
Other Remarks	**Available in condition A, H900, H925, H1025, H1075, H1100 & H1150D

### 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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