

# 17-7ph Stainless Steel - AMS 5528, AMS 5529, AMS 5644

## *Typical Applications*

- Chemical processing equipment
- Oil and Petroleum refining equipment
- Food processing equipment

*17-7 is a precipitation hardenable stainless steel. It develops its strength and hardness through heat treating.*

This makes it well suited for applications that require good formability, high strength/hardness and minimum distortion upon heat treating. 17/7 stainless steel also provides benefits for other applications requiring high strength and good corrosion resistance, as well as excellent properties for flat springs at temperatures up to 315°C (600°F).

## **Technical specification**

### *Related Specifications*

**AMS 5528**

**AMS 5529**

**Mil S 25043**

**UNS S17700**

## *Specific Gravity*

**7.81 g/cm<sup>3</sup>**

## *Chemical Composition (WT %)*

	Min	Max
<b>C</b>	-	0.09
<b>Mn</b>	-	1.00
<b>P</b>	-	0.040

<b>S</b>	-	0.030
<b>Si</b>	-	1.00
<b>Ch</b>	16.00	18.00
<b>Ni</b>	6.50	7.75
<b>Al</b>	0.75	1.50
<b>Cr</b>	16	18
<b>Fe</b>	Bal	-

*Typical Mechanical Properties in the Annealed Condition*

		Min	Max
<b>0.2% Proof Stress</b>	MPA	1035	-
<b>Tensile Strength</b>	MPA	1241	1448
<b>Elongation</b>	%	4	6
<b>Hardness</b>	HRC	38	46

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