

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/cm3

Chemical Composition (WT %)

	Min	Max
C	-	0.09
Mn	-	1.00
P	-	0.040

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

Typical Mechanical Properties in the Annealed Condition

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

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