

AMS 5528 - 17/7PH STAINLESS STEEL

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).

Specific Gravity										
7.81 g/cm ³										
Typical Applications						Related Specifications				
Chemical processing equipment						AMS 5528				
Oil and Petroleum refining equipment						AMS 5529				
Food processing equipment						Mil S 25043				
						UNS S17700				
Chemical Composition (Wt %)										
	C	Mn	P	S	Si	Ch	Ni	Al	Cr	Fe
Min	–	–	–	–	–	16.00	6.50	0.75	16	Bal
Max	0.09	1.00	0.04	0.03	1.00	18.00	7.75	1.50	18	–
Typical Mechanical Properties after Heat treatment (AMS 5528)										
					0.2% Proof Stress	Tensile Strength	Elongation	Hardness		
					MPA	MPA	%	HRC		
Min					1035	1241	4	38		
Max					–	1448	6	46		

* This data has been supplied in good faith and is indicative only. It has been provided for general information purposes only and is not to be relied upon in place of the full specification. Mechanical properties can vary considerably with different supply conditions such as heat treatment or temper and product dimensions.

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