

Westgate

17-7ph

(UNS: S17700) W. Nr. 1.4568

Chemical composition	C	Mn	Si	P	S	Cr	Ni	Al
% Present (Max)	0.09	1.00	1.00	0.040	0.03 0	16.0- 18.0	6.50- 7.75	0.75- 1.50

Alloy 17-7PH a precipitation hardening stainless steel that provides high strength and hardness, excellent fatigue properties, good corrosion resistance, good formability, and minimum distortion upon heat treatment. Alloy 17-7PH provides valuable property combinations particularly well suited for aerospace applications. This special alloy 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). 17-7PH stainless steel provides corrosion resistance in conditions TH 1050 and RH 950 is generally superior to that of the standard hardenable chromium types of stainless steels such as Types 410, 420 and 431, but is not quite as good as chromium-nickel Type 304. Corrosion resistance in Condition CH 900 approaches that of Type 304 in most environments. In Condition A, Alloy 17-7 PH can be formed comparably to Type 301. It work hardens rapidly and may require intermediate annealing in deep drawing or in forming intricate parts. Spring-back is similar to that of Type 301. Alloy 17-7 PH is extremely hard and strong in Condition C. Therefore, fabrication techniques for such materials must be used.

Note: Values are in accordance with EN 10088 specifications. Actual mill certs available upon request.



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