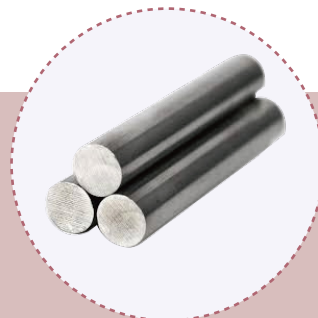
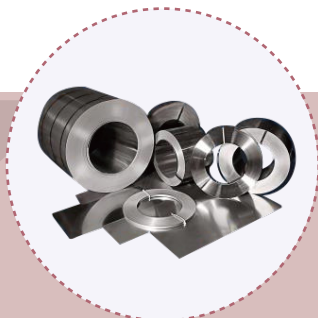


17-4PH stainless steel

Type 17-4 PH stainless steel is the most widely used of all of the precipitation-hardening stainless steels. Its valuable combination of properties gives designers opportunities to add reliability to their products while simplifying fabrication and often reducing costs. Type 17-4 PH is a martensitic precipitation-hardening stainless steel that provides an outstanding combination of high strength, good corrosion resistance, and good mechanical properties at temperatures up to 316°C (600°F). Its unique combination of properties make this alloy an effective solution to many design and production problems.



Advantage

- > Excellent Resistance
- > Corrosion resistance
- > Easy heat treatment

Ideal Applications

- > Aerospace
- > Chemical
- > Petrochemical
- > Food processing
- > Paper and general metalworking industries

Powder composition / percent by mass

Alloy	C	Si	Mn	P	Cr	Ni	S	Nb	Cu
17-4 PH	0.07	1.0	1.0	0.04	15.0-17.5	3.0-5.0	0.03	0.15-0.45	3.0-5.0

Technical Datasheet

Melting Point	1404 - 1440 °C
Density	7.75g/cm3
Modulus of Elasticity in Tension	190-210 GPa

Alloy	17-4 PH
Tensile Strength Minimum (psi)	160,00
Yield Strength Minimum 0.2% offset (psi)	145,000
% Elongation in 2" Minimum	5

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