

# 17-4 STAINLESS STEEL



## WHAT IS IT?

**17-4 is a chromium, nickel, copper, precipitation hardening stainless steel used for applications requiring corrosion resistance and high strength. It is the most widely used PH grade. ●●●●●●●●**

17-4 stainless, (also known as Type 630) is an Age Hardening martensitic stainless, combining the corrosion resistance of stainless steel with high strength. 17-4 Stainless is generally composed of approximately 17% Chromium, and 4% Nickel.

It is the work horse grade of the PH stainless family. Because of its strong corrosion resistance, good machining capabilities and high strength, 17-4 Stainless can be used in applications for aerospace, chemical processing, oil and gas exploration, food processing equipment, nuclear, and general metalworking. Some specific applications include gate valves, pump shafts, gears, plungers, valve stems balls, bushings, seats, and fasteners.

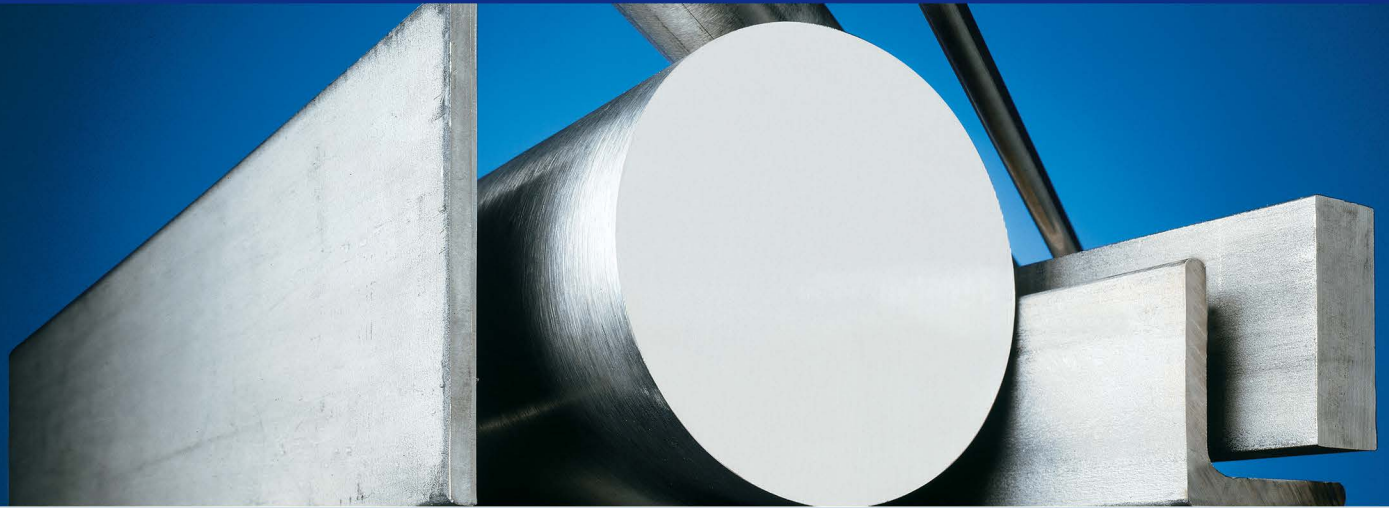
We stock this alloy primarily in the annealed condition, but also have inventory in some of the common heat treated conditions of H900, H1025, H1150 and Double H 1150.



## SPECIFICATION OF 17-4

- **AMS 5643**
- **ASTM/ASME: UNS S17400**
- **DIN 1.452**

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## WHAT WE STOCK

**TW METALS STOCKS A DIVERSE RANGE OF DIAMETERS IN 17-4. IF YOU WANT TO LEARN MORE ABOUT OUR PRODUCT OFFERINGS OR GET A QUOTE ON 17-4, PLEASE CONTACT US VIA EMAIL, PHONE NUMBER OR VISIT OUR WEBSITE!** .....

### MINIMUM PROPERTIES

Ultimate Tensile Strength, psi	160,000
Yield Strength, psi	145,000
Elongation	5%
Rockwell Hardness	C35

### CHEMISTRY

	Ni	Cr	Mo	Mn	Cu	Si	C	Cb+Ta	S	P	Fe
MIN	3.0	15.0	-	-	3.0	-	-	5 x C	-	-	-
MAX	5.0	17.5	0.50	1.0	5.0	1.0	0.07	0.45	0.03*	0.04*	Balance

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