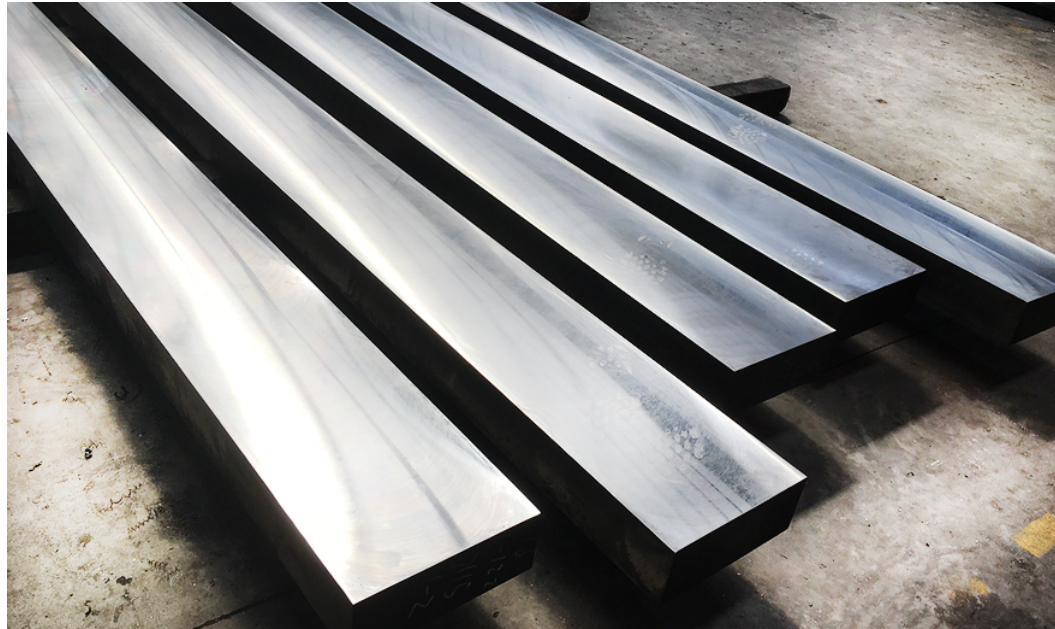


17-4 STAINLESS STEEL (AMS 5643)

TYPICAL USES

17-4 Stainless is suitable for a wide variety of applications in the commercial, oil and gas, aerospace, and nuclear industries. It's suitable for intricate parts requiring corrosion resistance and high strength that can be heat treated and welded with minimal distortion due to its precipitation hardening capabilities.



CONTACT US

360 Sheldon Drive
Cambridge, ON N1T 1A9
519-622-7900
barstock@bearingbronze.com

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17-4 STAINLESS STEEL (AMS 5643)

MECHANICAL PROPERTIES

Condition	Tensile Strength (ksi)	YS-0.2% offset (ksi)	Elongation (%)	Rockwell Hardness	Reduction of Area
H900	190 Typ	170 Typ	10 Typ	40-47 HRC	40% (35% >3")
H925	170 Typ	155 Typ	10 Typ	38-45 HRC	44% (38% >3")
H1025	155 Typ	145 Typ	12 Typ	34-42 HRC	45%
H1075	145 Typ	125 Typ	13 Typ	31-38 HRC	45%
H1100	140 Typ	115 Typ	14 Typ	30-37 HRC	45%
H1150	135 Typ	105 Typ	16 Typ	28-37 HRC	50%
Ann				39 HRC Max	

CHEMICAL PROPERTIES

Element										
	Cu(1,2)	Mn	Si	P	S	Cr	Ni(3)	Cb (Nb)	Cu	Mo
Min (%)						15.0	3.0	5 times C	3.0	
Max (%)	Rem	1.0	1.0	.04	.03	17.5	5.0	.45	5	.5
(1) Cu + Sum of Named Elements 99.5% min.(2) Cu value includes Ag.										

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