

# 15-5 PH STAINLESS STEEL (AMS 5659)

## TYPICAL USES

15-5 PH stainless steel is a martensitic precipitation-hardening stainless steel with approximately 15% Chromium and 5% Nickel. It has high strength, high hardness, and excellent corrosion resistance. Strength can be further increased by a single low temperature heat treatment. Compared to 17-4 PH, it offers better transverse toughness and ductility; better mechanical properties in larger cross-sections, and better forgeability. It is readily weldable. It can be machined in any of the several Thermal Conditions available to this grade.



### CONTACT US

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## MECHANICAL PROPERTIES

Condition	Tensile Strength (ksi)	YS-0.2% offset (ksi)	Elongation (%)	Rockwell Hardness	Reduction of Area
H900	190 Typ	170 Typ	6 Typ	C40	15%
H1025	155 Typ	145 Typ	8 Typ	C35	27%
H1075	145 Typ	125 Typ	9 Typ	C32	28%
H1150	135 Typ	105 Typ	11 Typ	C28	30%
H1150-M	115 Typ	75 Typ	14 Typ	C25	35%
Ann				C33	

## CHEMICAL PROPERTIES

Element								
	Cu(1,2)	Mn	Si	P	S	Cr	Ni(3)	Cu
Min (%)						14.0	3.5	2.5
Max (%)	Rem	1.0	1.0	.04	.03	15.5	5.5	4.5
(1) Cu + Sum of Named Elements 99.5% min.(2) Cu value includes Ag.								

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