

California Metal & Supply Inc.

ISO9001 & AS9100 Certified Company, Founded 1984
Titanium, Inconel, Nickel, Aluminum, A286, Stainless

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DATA SHEET: 15-5 Stainless Steel

15-5 PH stainless steel offers high strength and hardness with excellent corrosion resistance. SS 15-5 can be age-hardened by a low temperature treatment. 15-5 PH stainless steel offers good corrosion resistance, and high strength therefore has been used for aerospace applications.

Applications: Stainless Steel Alloy 15-5 is used in industrial applications, especially for the aerospace, food service, metalworking, chemical and petrochemical industries.

Composition for 15-5 PH

Element	Typical	
	Composition (Weight Percent)	
Carbon		0.04
Manganese		0.75
Phosphorus		0.020
Sulfur		0.005
Silicon		0.50
Chromium		14.5
Nickel		4.8
Columbium + Tantalum		0.30
Copper		3.5
Iron		Balance

Mechanical Properties Per 15-5 PH AMS 5659, AMS 5862

15-5 PH		Condition	Condition	Condition	Condition
		A	H 900	H 1075	H 1150
0.2% Offset	psi	110,000	175,000	135,000	125,000
	(MPa)	760	1,200	930	860
Yield Strength	psi	150,000	195,000	155,000	145,000
	(MPa)	1,030	1,340	1,070	1,000
Elongation					
(percentage in 2")		8	15	15	15
Hardness					
Rockwell C scale		33	43	31	28