



Combined Metals Company, LLC

Data Sheet

Alloy 201 Stainless Steel

UNS: S2010

Industries supplied include: Cooking Utensils, Restaurant Equipment, Appliances, Automotive Trim, and Architectural Applications.

Nominal Composition

	C	Mn	P	S	Si	Cr	Ni	N	Fe		
min	-	5.50	-	-	-	16.0	3.5	-	-		
max	.15	7.50	.060	.030	1.00	18.0	5.5	.25	BAL		

Physical Properties

Density	0.283 lb./in ³	7.81 g/cm ³
Modulus of Elasticity (E)	28.6 x 10 ³ ksi	197 x 10 ³ MPa
Coefficient of Expansion	10.2 x 10 ⁻⁶ microinches/in.-°F (70-600°F)	18.4 μm/m-°C (20-300°C)
Electrical Resistivity	27 μ ohm.in	68.5 μ ohm.cm
Thermal Conductivity	9.4 Btu-in./ft. ² hr.-°F	16.2 W/m-K

Applicable Specifications

ASTM A240, ASTM A666

Typical Mechanical Properties – Typical Room Temperature Mechanical Properties

Condition	Tensile Strength Min (UTS)	0.2% YS Min	Elongation% in 2" Min (50.8 mm)	Hardness Rockwell
Annealed (Min)	75 ksi (515 MPa)	38 ksi (260 MPa)	40%	95 HRBW (Max)

Typical mechanical properties are based on ASTM A240

Tempered Properties available upon request

For further information:

WWW.COMBMET.COM

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