

Combined Metals Company, LLC Data Sheet

Alloy 409 Stainless Steel

UNS: S40910/S40920/S40930
EN-DIN: 1.4512

409 Stainless is used when corrosion protection is needed beyond a carbon steel capacity. Applications include: Automotive, exhaust systems, and heat exchangers.

Nominal Composition

	C	Mn	P	S	Si	Cr	Ni	N	Fe		
min	-	-	-	-	-	10.50	-	-	-		
max	0.030	1.0	0.040	0.020	1.00	11.70	0.50	0.030	BAL		

Physical Properties

	At 70°F	At 20°C
Density	0.280 lb./in ³	7.75 g/cm ³
Modulus of Elasticity (E)	30.2 x 10 ³ ksi	208.22 x 10 ³ MPa
Electrical Resistivity	24 μ ohm.in	60 μ ohm.cm

Applicable Specifications

ASTM A240

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)	55 ksi (380 MPa)	25 ksi (170 MPa)	20%	88 HRBW (Max)

Typical mechanical properties are based on ASTM A240

For further information:

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