



Combined Metals Company, LLC

Data Sheet

Alloy 430 Stainless Steel

UNS: S43000
EN-DIN: 1.4016

430 stainless is a ferritic straight chrome grade. 430 presents a good corrosion resistance and formability. Typical applications for 430 include: Appliance (components and surface), and automotive trim.

Nominal Composition

	C	Mn	P	S	Si	Cr	Ni	N	Fe		
min	-	-	-	-	-	16.0	-	-	-		
max	0.12	1.0	0.040	0.030	1.00	18.0	0.75	-	BAL		

Physical Properties

	At 70°F	At 20°C
Density	0.28 lb./in ³	7.74 g/cm ³
Modulus of Elasticity (E)	29 x 10 ³ ksi	200 x 10 ³ MPa
Coefficient of Expansion	5.8 x 10 ⁻⁶ microinches/in.-°F (70-600°F)	10.4 μm/m-°C (20-300°C)
Electrical Resistivity	23.68 μ ohm.in	60 μ ohm.cm
Thermal Conductivity	15.1 Btu-in./ft. ² hr.-°F	26.1 W/m-K

Applicable Specifications

AMS 5503, 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)	65 ksi (450 MPa)	30 ksi (205 MPa)	22%	89 HRBW (Max)

Typical mechanical properties are based on ASTM A240

For further information:

WWW.COMBMET.COM

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