

Combined Metals Company, LLC

Data Sheet

Alloy 304L Stainless Steel							UNS: S30403 EN-DIN: 1.4306					
Industries supplied include: Process equipment in mining, chemical, cryogenic, food, dairy, and pharmaceutical industries. 304 grade stainless has excellent welding and formability characteristics and is one of the most utilized stainless steels. 304L is an extra low carbon grade with a 0.03% max carbon content that eliminates carbide precipitation due to welding.												
Nominal Composition												
	С	Mn	Р	S	Si	Cr	Ni	N	Fe			
min	-	-	-	-	-	17.5	5 8.0	-	-			
max	0.030	2.0	0.045	0.030	0.75	19.5	5 12.0	0.10	BAL			
Physical Properties												
			At 70°F				At 20°C					
Densi	ty		0.29 lb	./in³			8.03 g/cm ³					
Modu	lus of Elasti	city (E)	E) 28.0 x 10 ³ ksi				193 x 10 ³ MPa					
Coeffi	cient of Exp	ansion	9.4 x 10	⁻⁶ microincl	nes/in°F (70-	-600°F)	16.9 μm/m-°C (20-300°C)					
Electr	ical Resistiv	ity	28.4 μ ohm.in				72 μ ohm.cm					
Thern	nal Conducti	vity	9.4 Btu	.4 Btu-in./ft. ² hr°F			16.2 W/m-К					
Applicable Specifications												
AMS 5513, ASTM A313, ASTM A240, ASTM A580, ASTM A 666, AMS 5511												
Typical Mechanical Properties – Typical Room Temperature Mechanical Properties												
Condition		Tensile	Tensile Strength Min (UTS)		0.2% YS Min		Elongation% in 2" Min (50.8 mm)			Hardness Rockwell		
Annealed (Min)		70 ksi (70 ksi (485 MPa)			25 ksi (170 MPa)		40%		92 HRBW (Max)		
Typical mechanical properties are based on ASTM A240												
Tempered Properties available upon request												
For further information: WWW.COMBMET.COM Call: (800) 323-0758												

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