

Combined Metals of Chicago Bellwood Service Center

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	Ν	Fe			
min	-		-	-	-	-	17.5		8.0	-	-			
max	0.030		2.0	0.045	0.030	0.75	19.5		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 Ela	sticity	y (E)	(E) 28.0 x 10 ³ ksi					193 x 10 ³ MPa					
Coeffi	icient of I	Expans	sion	hes/in°F (70-	-600°F)	16.9 μm/m-°C (20-300°C)								
Electr	ical Resis	tivity		28.4 µ ohm.in					72 μ ohm.cm					
Thern	nal Condu	uctivit	y	9.4 Btu	-in./ft.²hr	-°F			16.2 W/m-K					
Appl	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 Strength Min (UTS)			0.2% YS Min		Elongation% in 2" Min (50.8 mm)			Hardness Rockwell			
Annealed (Min)		ı)	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														
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