

Elgiloy Specialty Metals Hampshire Mill

Alloy 304 Stainless Steel

UNS: S30400 EN-DIN: 1.4301

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.

	С	Mn	Р	S	Si	Cr	Ni	N	Fe			
min	-	-	-	-	-	17.5	8.0	-	-			
max	.07	2.0	0.045	0.030	0.75 19.5		10.5	0.10	BAL			
Phys	ical Prope	rties	1									
At 70°F							At 20°C					
Densit	ty		0.29 lb	0.29 lb./in ³				8.03 g/cm ³				
Modu	lus of Elasti	icity (E)	28.0 x	28.0 x 10 ³ ksi				193 x 10 ³ MPa				
Coeffi	cient of Exp	ansion	9.4 x 1	9.4 x 10^{-6} microinches/in°F (70-600°F)				16.9 μm/m-ºC (20-300ºC)				
Electr	ical Resistiv	ity	28.4 μ	28.4 μ ohm.in				72 μ ohm.cm				
Therm	nal Conduct	ivity	9.4 Bti	ı-in./ft.²hr	°F	16.2 W/m-K						
Appl	icable Spe	ecificatio	าร									
	AN	/IS 5513, AS	5TM A313, AS	TM A240, A	STM A580, A	STM A 6	66					
Туріс	al Mecha	nical Pro	perties – T	ypical Roc	om Temper	ature I	Aechanical P	roperties				
Condition			Tensile Strength (UTS)		0.2% YS		Elongation% in 2" (50.8 mm)		ım)	Hardness Rockwell		
Annealed			95 ksi (655 MPa)		42 ksi (290 MPa)		55			84 HRBW		
			Тур	ical mecha	nical prope	erties ar	e based on AS	TM A240				
				Tempere	d Propertie	es availa	ble upon requ	iest				
F		informati p <u>@elgiloy</u> 347) 453-(. <u>com</u> or		iloy Special Hampshire One Hauk npshire, IL 6	e Mill Road	www.esmhampshire.com					
only. guarar with d with p	Applications s ntees nor to k ata referring rescribed sar	suggested fo be construed to mechanic npling proce	or the materials as express or cal properties a edures; any wa	s are describe implied warr and chemical rranty therec	ed only to help anties of suita analyses are t f is limited to	readers bility for t he result the value	r knowledge and make their own e hese or other apj of tests performe s obtained at such nation should be s	valuations an olications. Da d on specime n locations an	d decision: ta was obt ns obtaine d by such	s, and are neithe ained from our ed from specific procedures. The	er melt sourc locations	