

Combined Metals Material Datasheet

Alloy 410S Stainless Steel						UNS: S41008 EN DIN: 1.4000					
austenite condition also hind Applicat	e formatio n when the lers format i ons includ	n at high e material tion of cra l e: Distilla	Steel is a non temperatures, is rapidly cool cks when the s tion trays, Heat Oil & Gas, Chen	thereby restr ed from above teel is welded. exchangers, A	ricting the the critic The alloy Annealing	e alloy cal tem v is com boxes	's ability operature opletely f	to harden. T e. This non-ha ferritic in the a	he result rdening ch	is a ductile aracteristic	
Nominal Composition											
	с	Mn	Р	S	Si		Cr	Ni	Ті	Fe	
min	-	-	-	-	-		11.50	-	-	BAL	
max	.080	1.0	0.040	0.030	1.00	:	13.50	0.60	0.20	-	
Physical Properties											
			At 70°F				At 20°C				
Density			0.280 lb/in ³				7.73 g/cm ³				
Modulus of Elasticity (E)			29.0 x 10 ³ ksi				200 GPa				
Coefficient of Expansion			6.0 μin/in-°F (32-212°F)				10.8 μm/m-°C (0-100°C)				
Electrical Resistivity			23.7 μohm-in				60 μohm-cm				
Thermal Conductivity			187 Btu-in/ft²-hr- °F (212°F)				26.9 W/m-К (100°С)				
Applicable Specifications											
Strip & Sheet ASTM A240											
Typical Mechanical Properties Typical Room Temperature Mechanical Properties											
Condition Tensile		Tensile S	trength (UTS)	t Yield	Elongation in 2" (50.8 mm)		Hardness Rockwell				
Anne	Annealed 65 ksi		(448 MPa) 40 ksi (276 i		MPa)	30%		75 HRBW			
Typical mechanical properties are based on ASTM A240											
For further information email:Combined Metals of Chicago, LLCcmcinfo@combmet.com orOne Hauk DriveWWW.COMBMET.COMcall: (800) 323-0758Hampshire, IL 60140										<u>OM</u>	

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