

Material: ASTM A240 UNS S34800

Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A240 Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

Belongs to the Industry: Steel, Plate, Sheet and Strip

Chemical Composition			Heat Treatment			
Carbon	C %	0.080 max.	Solution Annealing			
Silicon	Si %	0.750 max.				
Manganese	Mn %	2.000 max.				
Phosphorus	P %	0.045 max.				
Sulphur	S %	0.030 max.				
Chromium	Cr %	17.000 - 19.000				
Nickel	Ni %	9.000 - 13.000				
Nb + Ta	Nb % + Ta	10*C - 1.00 max.				
Tantalum	Ta %	0.100 max.				
Cobalt	Co %	0.200 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	515 min.		
-	-	-	Yield Strength in Mpa	205 min.		
-	-	-	Elongation in %	40 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	201 max.		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CF8C	ASTM	USA	Casting
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GX5CrNiNb 19-11	DIN	Germany	Casting
1.4552	EN	European Union	Casting
347 C 17	BS	British	Casting
SCS 21	JIS	Japan	Casting
SA 351 CF8C	ASME	USA	Casting

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