

Material: ASTM A240 UNS S31753

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 %	0.030 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 %	18.000 - 20.000		
Nickel	Ni %	11.000 - 15.000		
Molybdenum	Mo %	3.000 - 4.000		
Nitrogen	N %	0.100 - 0.220	Mechanical Properties	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	550 min.
			Yield Strength in Mpa	240 min.
			Elongation in %	40 min.
			Reduction of Area in %	-
			Hardness in BHN	217 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CG3M	ASTM	USA	Casting
SA-351 CG3M	ASME	USA	Casting
J92999	UNS	USA	Casting
1.4412	EN	European Union	Casting
H6A	AS	Australia	Casting
317 C 12	BS	British	Casting
AM X 7 CrNiMo 20-11	UNE	Spain	Casting

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