

Material: ASTM A240 UNS S31277

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 %	0.020 max.	Solution Annealing			
Silicon	Si %	0.500 max.				
Manganese	Mn %	3.000 max.				
Phosphorus	P %	0.030 max.				
Sulphur	S %	0.010 max.				
Chromium	Cr %	20.500 - 23.000				
Nickel	Ni %	26.000 - 28.000				
Molybdenum	Mo %	6.500 - 8.000				
Nitrogen	N %	0.300 - 0.400				
Copper	Cu %	0.500 - 1.500				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	770 min.		
-	-	-	Yield Strength in Mpa	360 min.		
-	-	-	Elongation in %	40 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	-		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S31277	UNS	USA	Steel
A213 S31277	ASTM	USA	Steel and Tube
A240 S31277	ASTM	USA	Steel and Tube
A580 S31277	ASTM	USA	Steel and Tube
A959 S31277	ASTM	USA	Steel and Tube
SA-240 S31277	ASME	USA	Steel and Tube
SA-249 S31277	ASME	USA	Steel and Tube

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