

Material: ASTM A 240 S31277

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

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM A 240 S31277 Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

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

Grade Belongs to the Industry: Plate, Sheet and Strip

Chemical Composition			Heat Treatment
Carbon	C %	0.020 max.	As-Cast or Annealing or Age Hardening
Silicon	Si %	0.500 max.	
Manganese	Mn %	3.000 max.	
Chromium	Cr %	20.500 - 23.000	
Molybdenum	Mo %	6.500 - 8.000	
Copper	Cu %	0.500 - 1.500	
Nitrogen	N %	0.300 - 0.400	
Phosphorus	P %	0.030 max.	
Sulphur	S %	0.010 max.	
Nickel	Ni %	26.000 - 28.000	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

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
Incoloy 27-7MO	Gravity	India	Sheet, Plate, Bar and Wire
A 213 S31277	ASTM	USA	Tube
A 249 S31277	ASTM	USA	Tube
A 312 S31277	ASTM	USA	Pipe
A 580 S31277	ASTM	USA	Wire
A 959 S31277	ASTM	USA	Pipe
SA-213 S31277	ASME	USA	Tube

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