

Material: UNS S31727

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: UNS 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

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.500 - 19.000		
Nickel	Ni %	14.500 - 16.500		
Molybdenum	Mo %	3.800 - 4.500		
Nitrogen	N %	0.150 - 0.210		
Copper	Cu %	2.800 - 4.000		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 550 min. Yield Strength in Mpa 245 min. Elongation in % 35 min. Reduction of Area in % - Hardness in BHN 217 max. Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S31727	ASTM	USA	Steel, Plate, Sheet and Strip
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