

Material: UNS S32101

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 %	0.040 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	4.000 - 6.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	21.000 - 22.000		
Nickel	Ni %	1.350 - 1.700		
Molybdenum	Mo %	0.100 - 0.800		
Nitrogen	N %	0.200 - 0.250		
Copper	Cu %	0.100 - 0.800		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	700 min.
			Yield Strength in Mpa	530 min.
			Elongation in %	30 min.
			Reduction of Area in %	-
			Hardness in BHN	290 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32101	ASTM	USA	Steel, Plate, Sheet and Strip
A276 S32101	ASTM	USA	Steel, Bar and Shape
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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