

Material - ASTM A240 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 - 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 %	0.040 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	<th colspan="2">Mechanical Properties</th>		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
S32101	UNS	USA	Steel
A276S32101	ASTM	USA	Steel, Bar and Shape
A182F 69	ASTM	USA	Steel
A479S32101	ASTM	USA	Steel
A789S32101	ASTM	USA	Steel
SA-182F 69	ASME	USA	Steel
A815CRS32101	ASTM	USA	Steel

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