

Material: ASTM A 276 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 A 276 S32101 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, Bar and Shapes

Chemical Composition		
Carbon	C %	0.040 max.
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	650 min.
Yield Strength in Mpa	450 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in HB	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
S32101	UNS	USA	Steel
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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