

Material: AISI 321

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: AISI 321 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 and Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.000 - 20.000		
Molybdenum	Mo %	0.750 max.		
Nickel	Ni %	9.000 - 12.000		
Titanium	Ti %	0.700 max.	Mechanical Properties	
Copper	Cu %	0.750 max.	Tensile Strength in Mpa	480 - 1895
Nitrogen	N %	0.100 max.	Yield Strength in Mpa	240 min.
Iron	Fe %	Balance	Elongation in %	20 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in BHN	217 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32100	ASTM	USA	Steel, Plate, Sheet and Strip
321	AMS	USA	Sheet, Bar, Wire, Shape and Forging
321	AS	Australia	Steel, Sheet, Plate and Strip
321	SAE	USA	Steel
STS 316	KS	Korea	Steel, Sheet, Plate and Strip
SUS 321	JIS	Japan	Steel, Sheet, Plate and Strip
A182 F321	ASTM	USA	Steel, Pipe and Forging

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