

## Material: AMS 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:** AMS 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:** Sheet, Bar, Wire, Shape and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.000 - 19.000		
Molybdenum	Mo %	1.000 max.		
Nickel	Ni %	9.000 - 12.000	Mechanical Properties	
Titanium	Ti %	0.700 max.		
Iron	Fe %	Balance		
-	-	-	Tensile Strength in Mpa	517 min.
-	-	-	Yield Strength in Mpa	207 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	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	AISI	USA	Steel and Tube
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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