

Material - AS 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 - AS 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, Sheet, Plate and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.		
Silicon	Si %	0.750 max.		
Manganese	Mn %	2.000 max.	Solution Annealing	
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.000 - 19.000		
Molybdenum	Mo %	0.350 max.		
Nickel	Ni %	9.000 - 12.000		
Titanium	Ti %	0.700 max.	Mechanical Properties	
Copper	Cu %	0.350 max.	Tensile Strength in Mpa	520 min.
Nitrogen	N %	0.100 max.	Yield Strength in Mpa	205 min.
Iron	Fe %	Balance	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	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	AISI	USA	Steel and Tube		
321	AMS	USA	Sheet, Bar, Wire, Shape and Forging		
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		

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.