

Material - ASTM A 789 S32001

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 789 S32001 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 %	0.030 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	4.000 - 6.000		
Phosphorus	P %	0.040 max.	Solution Annealing	
Sulphur	S %	0.030 max.		
Chromium	Cr %	19.500 - 21.500		
Molybdenum	Ni %	0.600 max.		
Nickel	Ni %	1.000 - 3.000		
Nitrogen	N %	0.050 - 0.170	Mechanical Properties	
Copper	Cu %	1.000 max.	Tensile Strength in Mpa	620 min.
Iron	Fe %	Balance	Yield Strength in Mpa	450 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	290 max.
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
A240 UNS S32001	ASTM	USA	Steel, Plate, Sheet and Strip		
S32001	UNS	USA	Steel		
A959 S32001	ASTM	USA	Steel		
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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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