



## Material - ASTM A240 UNS 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 A240 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, Plate, Sheet and Strip**

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	4.000 - 6.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	19.500 - 21.500		
Nickel	Ni %	1.000 - 3.000		
Molybdenum	Mo %	0.600 max.		
Nitrogen	N %	0.050 - 0.170		
Copper	Cu %	0.200 - 0.500		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 620 min. Yield Strength in Mpa 450 min. Elongation in % 25 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S32001	UNS	USA	Steel
A789 S32001	ASTM	USA	Steel and Tube
A959 S32001	ASTM	USA	Steel
A1098 S32001	ASTM	USA	Steel
SA-240 S32001	ASME	USA	Steel
SA-789 S32001	ASME	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](mailto:marketing@gravitycastindia.com)**

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