



## Material - ASTM A358 S32050

**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 A358 S32050 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 - Pipes**

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	20.000 - 23.000		
Molybdenum	Mo %	6.000 - 6.800		
Nitrogen	N %	0.210 - 0.320		
Copper	Cu %	0.400 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   675 min. Yield Strength in Mpa   330 min. Elongation in %   40 min. Reduction of Area in %   - Hardness in BHN   256 max. Impact in Joule   -	
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-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32050	ASTM	USA	Steel, Plate, Sheet and Strip
A240 S32050	ASTM	USA	Plate, Sheet and Strip
A213 S32050	ASTM	USA	Tubes for Superheaters and Heat Exchanges
A 959 S32050	ASTM	USA	Plate, Sheet and Strip
A249 S32050	ASTM	USA	Tubes for Superheaters and Heat Exchanges
S32050	UNS	USA	Plate, Sheet and Strip
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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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