

## Material - ASTM A959 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 A959 UNS 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 - Steel, Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.035 max.	Solution Ann	ealing
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	Mechanical Properties	
Copper	Cu %	0.400 max.	Tensile Strength in Mpa	675 min.
Iron	Fe %	Balance	Yield Strength in Mpa	330 min.
-	-	-	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-		Hardness in BHN	256 max.
-	-	-	Impact in Joule	-

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		
A358 S32050	ASTM	USA	Pipes		
A249 S32050	ASTM	USA	Tubes for Superheaters and Heat Exchanges		
S32050	UNS	USA	Plate, Sheet and Strip		
-	-	-	-		

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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