



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A240 UNS 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 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 %	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	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	675 min.		
-	-	-	Yield Strength in Mpa	330 min.		
-	-	-	Elongation in %	40 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	250 max.		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A213 S32050	ASTM	USA	Tubes for Superheaters and Heat Exchanges
A240 S32050	ASTM	USA	Plate, Sheet and Strip
A 959 S32050	ASTM	USA	Plate, Sheet and Strip
A358 S32050	ASTM	USA	Pipes
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

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.

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