



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A 312 S32654

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 312 S32654 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 Pipe

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 max.	Solution Annealing	
Silicon	Si %	0.500 max.		
Manganese	Mn %	2.000 - 4.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.005 max.		
Chromium	Cr %	24.000 - 25.000		
Molybdenum	Mo %	7.000 - 8.000		
Nickel	Ni %	21.000 - 23.000	Mechanical Properties	
Copper	Cu %	0.300 - 0.600	Tensile Strength in Mpa	750 min.
Nitrogen	N %	0.450 - 0.550	Yield Strength in Mpa	430 min.
Iron	Fe %	Balance	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32654	ASTM	USA	Steel, Plate, Sheet and Strip
S32654	UNS	USA	Steel
A167 S32654	ASTM	USA	Steel, Sheet, Plate and Strip
A249 S32654	ASTM	USA	Steel and Tube
A269 S32654	ASTM	USA	Steel and Tube
A276 S32654	ASTM	USA	Steel, Bar and Shapes
A959 S32654	ASTM	USA	Steel

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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