



## Material - UNS 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 - UNS 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**

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		
Nickel	Ni %	21.000 - 23.000		
Molybdenum	Mo %	0.450 - 0.550		
Copper	Cu %	0.300 - 0.600		
Nitrogen	N %	0.450 - 0.550		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa      750 min. Yield Strength in Mpa      430 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
A240 UNS S32654	ASTM	USA	Steel, Plate, Sheet and Strip
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 Shape
A312 S32654	ASTM	USA	Steel and Pipe
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](mailto: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.