



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - ASTM A240 UNS S34565

**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 %	5.000 - 7.000				
Phosphorus	P %	0.030 max.				
Sulphur	S %	0.010 max.				
Chromium	Cr %	23.000 - 25.000				
Nickel	Ni %	16.000 - 18.000				
Molybdenum	Mo %	4.000 - 5.000				
Nitrogen	N %	0.400 - 0.600				
Niobium	Nb %	0.100 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	795 min.		
-	-	-	Yield Strength in Mpa	415 min.		
-	-	-	Elongation in %	35 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	241 max.		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S34565	UNS	USA	Steel
A167 S34565	ASTM	USA	Steel, Sheet, Plate and Strip
A213 S34565	ASTM	USA	Steel and Tube
A249 S34565	ASTM	USA	Steel and Tube
A276 S34565	ASTM	USA	Steel, Bar and Shape
A312 S34565	ASTM	USA	Steel and Pipe
A959 S34565	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.

**ONE STOP SOLUTION FOR METAL PARTS**