



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

## Material - ASTM A 959 S30415

**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 959 S30415 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 %	0.040 - 0.060	Solution Annealing	
Silicon	Si %	1.000 - 2.000		
Manganese	Mn %	0.800 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	18.000 - 19.000		
Nickel	Ni %	9.000 - 10.000		
Cerium	Ce %	0.030 - 0.080	<b>Mechanical Properties</b> Tensile Strength in Mpa      600 min. Yield Strength in Mpa      290 min. Elongation in %      40 min. Reduction of Area in %      - Hardness in BHN      217 max. Impact in Joule      -	
Nitrogen	N %	0.120 - 0.180		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S30415	ASTM	USA	Steel, Plate, Sheet and Strip
S30415	UNS	USA	Steel
A167 S30415	ASTM	USA	Steel, Sheet, Plate and Strip
A249 S30415	ASTM	USA	Steel and Tube
A312 S30415	ASTM	USA	Steel and Pipe
A358 S30415	ASTM	USA	Steel and Pipe
SA-312 UNS S30415	ASME	USA	Steel and Pipe

**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**