



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

## Material - ASTM A 312 S35315

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 S35315 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 %	0.040 - 0.080	Solution Annealing	
Silicon	Si %	1.200 - 2.000		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	24.000 - 26.000		
Nickel	Ni %	34.000 - 36.000		
Nitrogen	N %	0.120 - 0.180	<b>Mechanical Properties</b> Tensile Strength in Mpa      600 min. Yield Strength in Mpa      260 min. Elongation in %      25 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
Cerium	Ce %	0.030 - 0.080		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S35315	ASTM	USA	Steel, Plate, Sheet and Strip
S35315	UNS	USA	Steel
A167 S35315	ASTM	USA	Steel, Sheet, Plate and Strip
A959 S35315	ASTM	USA	Steel
SA-240 UNS S35135	ASME	USA	Steel
SA-312 UNS S35135	ASME	USA	Steel and Pipe
X 6 NiCrSiNcE 35 25	EN	European Union	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.

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