



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

## Material - ASTM A 959 S32803

**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 S32803 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 %	0.015 max.	Solution Annealing	
Silicon	Si %	0.550 max.		
Manganese	Mn %	0.500 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.005 max.		
Chromium	Cr %	28.000 - 29.000		
Nickel	Ni %	3.000 - 4.000		
Molybdenum	Mo %	1.800 - 2.500		
Nitrogen	N %	0.020 max.		
Niobium	Nb %	0.150 - 0.500		
C + N	C% + N%	0.030 max.	<b>Mechanical Properties</b>	
Iron	Fe %	Balance	Tensile Strength in Mpa	600 min.
-	-	-	Yield Strength in Mpa	500 min.
-	-	-	Elongation in %	16 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	241 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32803	ASTM	USA	Steel, Plate, Sheet and Strip
S32803	UNS	USA	Steel
A176 S32803	ASTM	USA	Steel, Sheet, Plate and Strip
SA-240 UNS S32803	ASME	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**