



## Material - ASTM A240 UNS S44660

**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.	Annealing or Hardening + Tempering			
Silicon	Si %	1.000 max.				
Manganese	Mn %	1.000 max.				
Phosphorus	P %	0.040 max.				
Sulphur	S %	0.030 max.				
Chromium	Cr %	25.000 - 28.000				
Nickel	Ni %	1.000 - 3.500				
Molybdenum	Mo %	3.000 - 4.000				
Nitrogen	N %	0.040 max.				
Ti + Cb	Ti % + Cb %	0.200 - 1.000				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	585 min.		
-	-	-	Yield Strength in Mpa	450 min.		
-	-	-	Elongation in %	18 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	241 max.		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S44660	UNS	USA	Steel
A176 S44660	ASTM	USA	Steel, Sheet, Plate and Strip
SA-240 UNS S44660	ASME	USA	Steel
A268 26-3-3	ASTM	USA	Steel and Tube
A959 Type 26-3-3	ASTM	USA	Steel
SA-803 26-3-3	ASME	USA	Steel and Tube
SA-240 Type 26-3-3	ASME	USA	Steel, Sheet, Plate and Strip

**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)**

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