



## Material - ASME SA-376

**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 - ASME SA-376 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 %	0.030 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	18.000 - 20.000		
Molybdenum	Mo %	4.000 - 5.000		
Nickel	Ni %	13.500 - 17.500		
Copper	Cu %	0.750 max.		
Nitrogen	N %	0.100 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   515 min. Yield Strength in Mpa   205 min. Elongation in %   25 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S31725	ASTM	USA	Steel, Plate, Sheet and Strip
A358 S31725	ASTM	USA	Steel
A403 WP S31725	ASTM	USA	Steel and Pipe
A943 S31725	ASTM	USA	Steel and Pipe
SA-312 UNS S31725	ASME	USA	Steel and Pipe
SA-409 UNS S31725	ASME	USA	Steel and Pipe
A240 S31726	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)**

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