



Material - ASTM A240 UNS S44735

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 %	28.000 - 30.000				
Nickel	Ni %	1.000 max.				
Molybdenum	Mo %	3.600 - 4.200				
Nitrogen	N %	0.045 max.				
Ti + Cb	Ti % + Cb %	0.200 - 1.000				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 min.		
-	-	-	Yield Strength in Mpa	415 min.		
-	-	-	Elongation in %	18 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	255 max.		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S44700	UNS	USA	Steel
A176 S44700	ASTM	USA	Steel, Sheet, Plate and Strip
A276 S44700	ASTM	USA	Steel, Bar and Shape
A479 S44700	ASTM	USA	Steel
A493 S44700	ASTM	USA	Steel, Wire, Rod and Forging
A580 S44700	ASTM	USA	Steel and Wire
SA-276 S44700	ASME	USA	Steel, Bar and Shape

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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