

Material - UNS S44700

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 - UNS 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 %	0.010 max.		
Silicon	Si %	0.200 max.		
Manganese	Mn %	0.300 max.		
Phosphorus	P %	0.025 max.	Annealing or Hardening + Tempering	
Sulphur	S %	0.020 max.		
Chromium	Cr %	28.000 - 30.000		
Nickel	Ni %	0.150 max.		
Molybdenum	Mo %	3.500 - 4.200		
Nitrogen	N %	0.020 max.	Mechanical Properties	
Copper	Cu %	0.150 max.	Tensile Strength in Mpa	550 min.
C + N	C % + N %	0.025 max.	Yield Strength in Mpa	415 min.
Iron	Fe %	Balance	Elongation in %	20 min.
-	-		Reduction of Area in %	-
-	-	-	Hardness in BHN	223 max.
-	-		Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
A240 UNS S44700	ASTM	USA	Steel, Plate, Sheet and Strip	
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 Pipe	
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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