



Material - UNS S44800

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.	Annealing or Hardening + Tempering	
Silicon	Si %	0.020 max.		
Manganese	Mn %	0.300 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	28.000 - 30.000		
Nickel	Ni %	2.000 - 2.500		
Molybdenum	Mo %	3.500 - 4.200		
Nitrogen	N %	0.020 max.		
Copper	Cu %	0.150 max.		
C + N	C % + N %	0.025 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	550 min.
-	-	-	Yield Strength in Mpa	415 min.
-	-	-	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 S44800	ASTM	USA	Steel, Plate, Sheet and Strip
A176 S44800	ASTM	USA	Steel, Sheet, Plate and Strip
A276 S44800	ASTM	USA	Steel, Bar and Shape
A479 S44800	ASTM	USA	Steel
A493 S44800	ASTM	USA	Steel, Wire, Rod and Forging
A580 S44800	ASTM	USA	Steel and Wire
SA-276 S44800	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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