

Material - ASTM A 176 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 - ASTM A 176 S44800 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, Sheet, Plate and Strip

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		
Molybdenum	Mo %	3.500 - 4.200		
Nickel	Ni %	2.000 - 2.500		
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 HRC	20 max.
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
A240 UNS S44800	ASTM	USA	Steel, Plate, Sheet and Strip		
S44800	UNS	USA	Steel		
A276 S44800	ASTM	USA	Steel, Bar and Shapes		
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 Shapes		

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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