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		
Carbon	C %	0.010 max.
Silicon	Si %	0.200 max.
Manganese	Mn %	0.300 max.
Phosphorus	P %	0.025 max.
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.
Copper	Cu %	0.150 max.
C + N	C% + N%	0.025 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	550 min.
Yield Strength in Mpa	415 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HRC	20 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
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

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