



Material - ASME SA-240 S46800

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 - ASME SA-240 S46800 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 %	0.030 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 %	18.000 - 20.000		
Nickel	Ni %	0.500 max.		
Titanium	Ti %	0.070 - 0.300	Mechanical Properties Tensile Strength in Mpa 415 min. Yield Strength in Mpa 205 min. Elongation in % 22 min. Reduction of Area in % - Hardness in HRC 90 max. Impact in Joule -	
Nitrogen	N %	0.030 max.		
Niobium	Nb %	0.100 - 0.600		
Ti + Nb	Ti% + Nb%	0.800 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S46800	ASTM	USA	Steel, Plate, Sheet and Strip
A959 S46800	ASTM	USA	Steel
S46800	UNS	USA	Steel
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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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