

Material: ASTM A959 N08811

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 A959 N08811 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 %	0.060 - 0.100	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	19.000 - 23.000		
Nickel	Ni %	30.000 - 35.000		
Titanium	Ti %	0.150 - 0.600		
Aluminium	Al %	0.150 - 0.600		
Al + Ti	Al% + Ti%	0.850 - 1.200		
			Mechanical Properties	
Copper	Cu %	0.750 max.	Tensile Strength in Mpa	520 min.
Iron	Fe %	39.500 min.	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS N08800	ASTM	USA	Steel, Plate, Sheet and Strip
N08800	UNS	USA	Steel
A358 N08800	ASTM	USA	Steel
A959 Type800	ASTM	USA	Steel
1.4958	EN	European Union	Flat and Steel
1.4958	DIN	Germany	Flat and Steel
A358 N08810	ASTM	USA	Steel and Pipe

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