

Material: ASTM A 959 S38815

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 959 S38815 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.	Solution Annealing	
Silicon	Si %	5.500 - 6.500		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	13.000 - 15.000		
Molybdenum	Mo %	0.750 - 1.500		
Nickel	Ni %	15.000 - 17.000		
Copper	Cu %	0.750 - 1.500		
Aluminium	Al %	0.300 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	540 min.
-	-	-	Yield Strength in Mpa	255 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 S38815	ASTM	USA	Steel, Plate, Sheet and Strip
S38815	UNS	USA	Steel
A403 WP S38815	ASTM	USA	Steel and Pipe
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