Material: ASTM A240 UNS 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 A240 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, Plate, Sheet and Strip*

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	5.500 - 6.500
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	13.000 - 15.000
Nickel	Ni %	13.000 - 17.000
Molybdenum	Mo %	0.750 - 1.500
Copper	Cu %	0.750 - 1.500
Aluminium	Al %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
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**
S38815	UNS	USA	Steel
A403 WP S38815	ASTM	USA	Steel and Pipe
A959 S38815	ASTM	USA	Steel
SA-240 S38815	ASME	USA	Steel
SA-249 S38815	ASME	USA	Steel
SA-312 S38815	ASME	USA	Steel
SA-479 S38815	ASME	USA	Steel

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