

Material: ASTM A240 UNS S31050

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			Heat Treatment	
Carbon	C %	0.020 max.	Solution Annealing	
Silicon	Si %	0.500 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	24.000 - 26.000		
Nickel	Ni %	20.500 - 23.500		
Molybdenum	Mo %	1.600 - 2.600		
Nitrogen	N %	0.090 - 0.150	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	540 min.
-	-	-	Yield Strength in Mpa	255 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	217 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S31050	UNS	USA	Steel
A213 S31050	ASTM	USA	Steel and Tube
A249 S31050	ASTM	USA	Steel and Tube
A312 S31050	ASTM	USA	Steel and Pipe
A943 S31050	ASTM	USA	Steel and Pipe
SA-312 UNS S31050	ASME	USA	Steel and Pipe
A182 F 310MoLN	ASTM	USA	Steel, Pipe and Forging

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