

Material: ASME SA-312 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: ASME SA-312 UNS S31050 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 and Pipe

Chemical Composition			Heat Treatment	
Carbon	C %	0.250 max.	Solution Annealing	
Silicon	Si %	0.400 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	24.000 - 26.000		
Molybdenum	Mo %	1.600 - 2.600		
Nickel	Ni %	20.500 - 23.500		
Nitrogen	N %	0.090 - 0.150		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 540 min. Yield Strength in Mpa 255 min. Elongation in % 25 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S31050	ASTM	USA	Steel, Plate, Sheet and Strip
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
A182 F 310MoLN	ASTM	USA	Steel, Pipe and Forging

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