

Material - ASTM A240 UNS S31803

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 %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P%	0.030 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr%	21.000- 23.000		
Nickel	Ni%	4.500 - 6.500		
Molybdenum	Mo %	2.500- 3.500		
Nitrogen	N%	0.080- 0.200		
Iron	Fe%	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 620 min. Yield Strength in Mpa 450 min. Elongation in % 25 min. Reduction of Area in % - Hardness in BHN 293 max. Impact in Joule -	
-	-	-		
-	-	-		
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-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A9954A	ASTM	USA	Casting
J92205	UNS	USA	Casting
A8904A	ASTM	USA	Casting
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Customer Care: +91-99090 45075 Email: info@icastllp.com