

Material: ASTM A240 UNS S32974

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 %	0.800 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	24.000 - 26.000		
Nickel	Ni %	6.000 - 8.000		
Molybdenum	Mo %	2.500 - 3.500		
Nitrogen	N %	0.240 - 0.320		
Copper	Cu %	0.200 - 0.800		
Tungsten	W %	1.500 - 2.500		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	800 min.
			Yield Strength in Mpa	550 min.
			Elongation in %	15 min.
			Reduction of Area in %	-
			Hardness in BHN	310 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S39274	UNS	USA	Steel
A789 S39274	ASTM	USA	Steel and Tube
A790 S39274	ASTM	USA	Steel and Pipe
A815 S39274	ASTM	USA	Steel and Pipe
A959 S39274	ASTM	USA	Steel
A988 S39274	ASTM	USA	Steel
SA-789 UNS S39274	ASME	USA	Steel

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Customer Care: +91-99090 45075 Email: info@icastllp.com