

Material: UNS S32506

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: UNS 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

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	0.900 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	24.000 - 26.000		
Nickel	Ni %	5.500 - 7.200		
Molybdenum	Mo %	3.000 - 3.500		
Nitrogen	N %	0.080 - 0.200		
Tungsten	W %	0.050 - 0.300		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	620 min.
			Yield Strength in Mpa	450 min.
			Elongation in %	18 min.
			Reduction of Area in %	-
			Hardness in BHN	302 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32506	ASTM	USA	Steel, Plate, Sheet and Strip
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-	-	-	-
-	-	-	-
-	-	-	-
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Customer Care: +91-99090 45075 Email: info@icastllp.com