

Material: UNS S32906

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 %	0.500 max.				
Manganese	Mn %	0.800 - 1.500				
Phosphorus	P %	0.030 max.				
Sulphur	S %	0.030 max.				
Chromium	Cr %	28.000 - 30.000				
Nickel	Ni %	5.800 - 7.500				
Molybdenum	Mo %	1.500 - 2.600				
Nitrogen	N %	0.300 - 0.400				
Copper	Cu %	0.800 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	800 min.		
-	-	-	Yield Strength in Mpa	650 min.		
-	-	-	Elongation in %	25 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	310 max.		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32906	ASTM	USA	Steel, Plate, Sheet and Strip
A789 S32906	ASTM	USA	Steel and Tube
A959 S32906	ASTM	USA	Steel
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