

Material: UNS S32803

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 %	0.015 max.	Solution Annealing	
Silicon	Si %	0.550 max.		
Manganese	Mn %	0.500 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.0035 max.		
Chromium	Cr %	28.000 - 29.000		
Nickel	Ni %	3.000 - 4.000		
Molybdenum	Mo %	1.800 - 2.500		
Nitrogen	N %	0.020 max.		
Niobium	Nb %	1Z (C+N)		
C + N	C % + N %	0.030 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	600 min.
-	-	-	Yield Strength in Mpa	500 min.
-	-	-	Elongation in %	16 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	241 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S32803	ASTM	USA	Steel, Plate, Sheet and Strip
A176 S32803	ASTM	USA	Steel, Sheet, Plate and Strip
A959 S32803	ASTM	USA	Steel
SA-240 UNS S32803	ASME	USA	Steel
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