

## Material: ASTM A240 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:** 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 %	0.015 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
S32803	UNS	USA	Steel
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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