

Material: ASTM A240 UNS S43940

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.	Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	17.500 - 18.500		
Titanium	Ti %	0.100 - 0.600		
Niobium	Nb %	0.300 + (3*C) min.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	430 min.
-	-	-	Yield Strength in Mpa	250 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	180 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S43932	UNS	USA	Steel
A959 S43932	ASTM	USA	Steel
S43940	UNS	USA	Steel
A240 S43940	ASTM	USA	Steel, Sheet, Plate and Strip
A268 S43940	ASTM	USA	Steel and Tube
A959 S43940	ASTM	USA	Steel
SA-240 S43940	ASME	USA	Steel

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