

Material: ASTM A240 UNS S32615

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 %	0.070 max.	Solution Annealing	
Silicon	Si %	4.800 - 6.000		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.500 - 19.500		
Nickel	Ni %	19.000 - 22.000		
Copper	Cu %	1.500 - 2.500		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	550 min.
			Yield Strength in Mpa	220 min.
			Elongation in %	25 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S32615	UNS	USA	Steel
A213 S32615	ASTM	USA	Steel and Tube
A312 S32615	ASTM	USA	Steel and Pipe
A943 S32645	ASTM	USA	Steel and Pipe
A959 S32615	ASTM	USA	Steel
SA-312 UNS S32615	ASME	USA	Steel and Pipe
A182 F 63	ASTM	USA	Steel, Plate, Sheet and Strip

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