

## Material: ASTM A 312 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 A 312 S32615 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 and Pipe

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		
Molybdenum	Mo %	0.300 - 1.500		
Nickel	Ni %	19.000 - 22.000		
Copper	Cu %	1.500 - 2.500	Mechanical Properties	
Iron	Fe %	Balance	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
A240 UNS S32615	ASTM	USA	Steel, Plate, Sheet and Strip
S32615	UNS	USA	Steel
A213 S32615	ASTM	USA	Steel and Tube
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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