

## Material: ASTM A240 UNS S44635

### 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 %	0.025 max.	Annealing or Hardening + Tempering	
Silicon	Si %	0.750 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	24.500 - 26.000		
Nickel	Ni %	3.500 - 4.500		
Molybdenum	Mo %	3.500 - 4.500		
Nitrogen	N %	0.035 max.		
Ti + Cb	Ti % + Cb %	0.200±4 (C+N) -		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   620 min. Yield Strength in Mpa   515 min. Elongation in %   20 min. Reduction of Area in %   - Hardness in BHN   269 max. Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S44635	UNS	USA	Steel
A176 S44635	ASTM	USA	Steel, Sheet, Plate and Strip
SA-240 UNS S44635	ASME	USA	Steel
A268 25-4-4	ASTM	USA	Steel and Tube
A791 Grade 25-4-4	ASTM	USA	Steel and Tube
A803 Grade 25-4-4	ASTM	USA	Steel and Tube
A959 Type 25-4-4	ASTM	USA	Steel

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