

## Material: ASTM A 959 Type 25-4-4

### 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 959 Type 25-4-4 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

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		
Molybdenum	Mo %	3.500 - 4.500		
Nickel	Ni %	3.500 - 4.500		
Nitrogen	N %	0.035 max.		
Titanium	Ti %	0.800 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	620 min.
-	-	-	Yield Strength in Mpa	515 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	270 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S44635	ASTM	USA	Steel, Plate, Sheet and Strip
S11635	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
A791 Grade 25-4-4	ASTM	USA	Steel and Tube

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