

## Material: ASTM A 959 S44500

### 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 S44500 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 %	0.020 max.	Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.012 max.		
Chromium	Cr %	19.000 - 21.000		
Nickel	Ni %	0.600 max.		
Nitrogen	N %	0.030 max.		
Copper	Cu %	0.300 - 0.600		
			Mechanical Properties	
Niobium	Nb %	0.800 max.	Tensile Strength in Mpa	427 min.
Iron	Fe %	Balance	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S44500	ASTM	USA	Steel, Plate, Sheet and Strip
S44500	UNS	USA	Steel
SA-240 UNS S44500	ASME	USA	Steel, Sheet, Plate and Strip
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