

# Material: UNS S43600

## 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:** UNS 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 %	0.120 max.	Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Molybdenum	Mo %	0.750 - 1.250		
Niobium	Nb %	5*C - 0.800 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	
			450 min.	
			Yield Strength in Mpa	
			240 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 S43600	ASTM	USA	Steel, Plate, Sheet and Strip
436 S 20	BS	British	Steel and Wire
51436	SAE	USA	Steel
A959 Type 436	ASTM	USA	Steel
STS 436L	KS	Korea	Steel, Sheet, Plate and Strip
SUS 436L	JIS	Japan	Steel, Sheet, Plate and Strip
A651 TP 434	ASTM	USA	Steel and Tube

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