

Material: SAE 51436

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: SAE 51436 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.	
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 %	0.800 max.	
Iron	Fe %	Balance	
-	-	-	Annealing or Hardening + Tempering
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

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
S43600	UNS	USA	Steel
436 S 20	BS	British	Steel and Wire
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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