

Material: KS STS 436L

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: KS STS 436L 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, Sheet, Plate and Strip

Chemical Composition		
Carbon	C %	0.025 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 - 19.000
Molybdenum	Mo %	0.750 - 1.250
Nickel	Ni %	0.600 max.
Titanium	Ti %	0.800 max.
Nitrogen	N %	0.025 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	410 min.
Yield Strength in Mpa	245 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HB	217 max.
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
51436	SAE	USA	Steel
A959 Type 436	ASTM	USA	Steel
SUS 436L	JIS	Japan	Steel, Sheet, Plate and Strip
A651 TP 434	ASTM	USA	Steel and Tube

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