

Material: JIS SUS 434

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: JIS SUS 434 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, Wire and Rod

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		
Nickel	Ni %	0.600 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	413.7 min.
-	-	-	Yield Strength in Mpa	206.8 min.
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S43400	ASTM	USA	Steel, Plate, Sheet and Strip
S43400	UNS	USA	Steel
434 S 20	BS	British	Steel and Wire
51434	SAE	USA	Steel
A651 TP 434	ASTM	USA	Steel and Tube
A959 Type 434	ASTM	USA	Steel
STS 434	KS	Korea	Steel, Wire and Rod

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