

## Material: ASTM A240 UNS S43000

### 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 A240 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, Plate, Sheet and Strip

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		
Nickel	Ni %	0.750 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	450 min.
			Yield Strength in Mpa	205 min.
			Elongation in %	22 min.
			Reduction of Area in %	-
			Hardness in BHN	183 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
430	AISI	USA	Steel
430	AMS	USA	Sheet, Bar, Wire, Shape and Forging
430	AS	Australia	Steel, Sheet, Plate and Strip
430	SAE	USA	Sheet, Bar, Wire, Shape and Forging
STS 430	KS	Korea	Steel, Sheet, Plate and Strip
SUS 430	JIS	Japan	Steel, Wire and Bar
A182 F 430	ASTM	USA	Steel, Pipe and Forging

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