

## Material: ASTM A182 F 309H

### 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 A182 F 309H 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, Pipe and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 - 0.100	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	12.000 - 15.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	485 min.
-	-	-	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	50 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S30908	ASTM	USA	Steel, Plate, Sheet and Strip
309	AMS	USA	Steel, Bar, Wire, Shape and Forging
309	SAE	USA	Steel, Bar, Wire, Shape and Forging
309 S 16	BS	British	Steel and Plates
STS 309S	KS	Korea	Steel, Plate, Sheet and Strip
SUH 309	JIS	Japan	Steel, Bar and Wire
30309	AISI	USA	Steel, Bar, Wire and Forging

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