

# Material: ASTM A240 UNS S20200

## 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 %	0.150 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	7.500 - 10.000		
Phosphorus	P %	0.060 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	4.000 - 6000		
Nitrogen	N %	0.250 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	620 min.
			Yield Strength in Mpa	260 min.
			Elongation in %	40 min.
			Reduction of Area in %	-
			Hardness in HB	241 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
202	AISI	USA	Bar, Wire, Shape, Steel and Forging
202	SAE	USA	Bar, Wire, Shape, Steel and Forging
X12CrMnNiN18-9-5	AFNOR NF	France	Steel
X12CrMnNiN18-9-5	DIN	Germany	Steel
X12CrMnNiN18-9-5	UNI	Italy	Steel, Sheet, Strip and Plate
X12CrMnNiN18 9 5	EN	European Union	Steel
SUS 202	JIS	Japan	Steel, Plate, Strip and Sheet

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