

# Material: ASTM A240 UNS S20153

## 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 %	0.030 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	6.400 - 7.500		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	16.000 - 17.500		
Nickel	Ni %	4.000 - 5.000		
Nitrogen	N %	0.100 - 0.250		
Copper	Cu %	1.000 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 655 min. Yield Strength in Mpa 310 min. Elongation in % 45 min. Reduction of Area in % - Hardness in HB 241 max. Impact in Joule -	
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-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4372	DIN	Germany	Steel
SUS 201	JIS	Japan	Steel, Wire and Forging
X12CrMnNiN17-7-5	AFNOR NF	France	Steel
X12CrMnNiN17-7-5	DIN	Germany	Steel
X12CrMnNiN17-7-5	UNI	Italy	Steel, Sheet, Plate and Strip
X12CrMnNiN17 7 5	EN	European Union	Steel
201	SAE	USA	Steel

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