

# Material: ASTM A240 UNS N08020

## 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		
Carbon	C %	0.070 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	19.000 - 21.000
Nickel	Ni %	32.000 - 38.000
Molybdenum	Mo %	2.000 - 3.000
Niobium	Nb %	8*C - 1.000 max.
Copper	Cu %	3.000 - 4.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	550 min.
Yield Strength in Mpa	240 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in HB	217 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 182 F 20	ASTM	USA	Forging
A358 N08020	ASTM	USA	Steel and Pipe
A 959 N08020	ASTM	USA	Steel
N08020	UNS	USA	Steel
N08321	UNS	USA	Steel
NiCr20CuMo	DIN	Germany	Steel
B463 N08020	ASTM	USA	Steel

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