

# Material: ASTM A 358 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 A 358 N08020 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 and Pipe

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
Molybdenum	Mo %	2.000 - 3.000
Nickel	Ni %	32.000 - 38.000
Niobium	Nb %	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 %	20 min.
Reduction of Area in %	-
Hardness in HB	217 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS N08020	ASTM	USA	Steel, Plate, Sheet and Strip
A240 UNS N08020	ASTM	USA	Steel and Pipe
A358 N08020	ASTM	USA	Steel and Pipe
N08020	UNS	USA	Steel
N08321	UNS	USA	Steel
NiCr20CuMo	DIN	Germany	Steel
-	-	-	-

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