



## Material - UNS N08321

**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 - UNS N08321 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**

Chemical Composition			Heat Treatment	
Carbon	C %	0.035 max.	Solution Annealing	
Silicon	Si %	0.300 max.		
Manganese	Mn %	1.500 - 2.500		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	19.000 - 21.000		
Molybdenum	Mo %	2.000 - 3.000		
Nickel	Ni %	32.000 - 36.000	Mechanical Properties	
Niobium	Nb %	0.400 max.	Tensile Strength in Mpa	550 min.
Copper	Cu %	3.000 - 4.000	Yield Strength in Mpa	240 min.
Iron	Fe %	Balance	Elongation in %	20 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 N08020	ASTM	USA	Steel, Plate, Sheet and Strip
A240 UNS N08020	ASTM	USA	Steel and Pipe
A358 N08020	ASTM	USA	Steel and Pipe
A 959 N08020	ASTM	USA	Steel
N08020	UNS	USA	Steel
NiCr20CuMo	DIN	Germany	Steel
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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