

## Material - EN X 12 CrMnNiN 18 9 5

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 - X 12 CrMnNiN 18 9 5 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 %	0.150 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	7.500 - 10.500	Solution Annealing	
Phosphorus	Р%	0.045 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	4.000 - 6000		
Nitrogen	N %	0.050 - 0.250		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	600 - 880
-	-	-	Yield Strength in Mpa	320 min.
-	-	-	Elongation in %	35 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	60 J @ RT
		-		

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
A240 UNS S20200	ASTM	USA	Steel, Plate, Sheet and Strip	
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	
SUS 202	JIS	Japan	Steel, Plate, Strip and Sheet	

## Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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