

Material: DIN X12CrMnNiN18-9-5

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: DIN X12CrMnNiN18-9-5 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.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	7.500 - 10.500		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	4.000 - 6.000		
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	-
-	-	-	Impact in Joule	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	UNI	Italy	Steel, Sheet, Strip and Plate
X12CrMnNiN18 9 5	EN	European Union	Steel
SUS 202	JIS	Japan	Steel, Plate, Strip and Sheet

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