

Material: EN X 12 CrMnNiN 17 7 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: EN X 12 CrMnNiN 17 7 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 %	5.500 - 7.500		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	16.000 - 18.000		
Nickel	Ni %	3.500 - 5.500		
Nitrogen	N %	0.050 - 0.250		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	750 - 950
-	-	-	Yield Strength in Mpa	330 min.
-	-	-	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S20100	ASTM	USA	Steel, Plate, Sheet and Strip
1.4372	DIN	Germany	Steel
SUS 201	JIS	Japan	Steel, Wire and Forging
X12CrMnNiN17-7-5	AFNOR NF	France	Steel
X12CrMnNiN17-7-5	UNI	Italy	Steel
X12CrMnNiN17-7-5	DIN	Germany	Steel
201	SAE	USA	Steel

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Customer Care: +91-99090 45075 Email: info@icastllp.com