

# Material: DIN X12CrMnNiN17-7-5

## 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:** DIN X12CrMnNiN17-7-5 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, Sheet, Plate and Strip

Chemical Composition		
Carbon	C %	0.150 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Solution Annealing

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	EN	European Union	Steel
201	SAE	USA	Steel

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