

Material: ASTM A240 UNS S20100

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: ASTM A240 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, Plate, Sheet and Strip

Chemical Composition		
Carbon	C %	0.015 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	5.500 - 7.500
Phosphorus	P %	0.060 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	16.000 - 18.000
Nickel	Ni %	3.500 - 5.500
Nitrogen	N %	0.250 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	
Mechanical Properties	
Tensile Strength in Mpa	515 min.
Yield Strength in Mpa	260 min.
Elongation in %	40 min.
Reduction of Area in %	-
Hardness in HB	217 max.
Impact in Joule	-

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

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



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India