



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - ASTM A240 UNS S20103

**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			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	5.500 - 7.500		
Phosphorus	P %	0.045 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	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	655 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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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