GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10088-1 1.4971 (X12CrCoNi21-20)

Standard Specification for Stainless Steel

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10088-1 1.4971 (X12CrCoNi21-20) Stainless Steel

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.080 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	20.000 - 22.500
Molybdenum	Mo %	2.500 - 3.500
Nickel	Ni %	19.000 - 21.000
Nitrogen	N %	0.100 - 0.200
Niobium	Nb %	0.750 - 1.250
Tungsten	W %	2.000 - 3.000
Cobalt	Co %	18.500 - 21.000
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	-
Proof Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HRB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
X 12 CrCoNi 21-20	DIN	Germany	Steel
1.4971	DIN	Germany	Steel
G 4311 SUH 661	JIS	Japan	Steel and Bars
G 4312 SUH 661	JIS	Japan	Plate, Sheet and Strip
EU 90 X 12 CrCoNiMoWNb 21 20 20	EN	European Union	Steel
AMS 5794	SAE	USA	Steel and Bars
AMS 5769	SAE	USA	Bars and Forging

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

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