GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10272 X2CrMnNiN21-5-1 I 1.4162

Standard Specification for Stainless Steel Bars for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10272 X2CrMnNiN21-5-1 I 1.4162 Stainless Steel Bars for Pressure Purposes

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

Grade Belongs to the Industry - Bars

Chemical Composition		
Carbon	C %	0.040 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	4.000 - 6.000
Phosphorus	P %	0.035 max.
Sulphur	S %	0.005 max.
Nitrogen	N %	0.200 - 0.250
Chromium	Cr %	21.000 - 22.000
Copper	Cu %	0.100 - 0.800
Molybdenum	Mo %	0.100 - 0.800
Nickel	Ni %	1.350 - 1.700
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	650 - 900
Proof Strength in Mpa	400 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in HBW	290 max.
Impact in Joule	60 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S32101	UNS	USA	Steel
A 240 S32101	ASTM	USA	Plate, Sheet and Strip
A 276 S32101	ASTM	USA	Bars and Shapes
A 815 S32101	ASTM	USA	Steel and Pipe
A 182 S32101	ASTM	USA	Steel and Pipe
A 182 F 69	ASTM	USA	Steel and Pipe
SA-276 S32101	ASME	USA	Bars and Shapes

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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