GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10028-7 X2CrMnNiN21-5-1 I 1.4162

Standard Specification for Flat Products Made of Steels for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10028-7 X2CrMnNiN21-5-1 I 1.4162 Flat Products Made of Steels for Pressure Purposes

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

Grade Belongs to the Industry - Steel

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 - 1.900
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	680 - 900
Proof Strength in Mpa	480 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	80 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S32101	UNS	USA	Steel
SA-276 S32101	ASME	USA	Steel, Bar and Shapes
A276 S32101	ASTM	USA	Steel, Bar and Shapes
A 240 UNS S32101	ASTM	USA	Plate, Sheet and Strip
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

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.