GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 276 Grade 1

Standard Specification for Austenitic-Manganese Steel Castings

Group - Ferrous Stainless Steel Alloys

Sub Group - IS 276 Grade 1 Austenitic-Manganese Steel Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	1.050 - 1.350
Silicon	Si %	1.000 max.
Manganese	Mn %	11.000 - 14.000
Phosphorus	P %	0.080 max.
Sulphur	S %	0.025 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	600 min.
Yield Strength in Mpa	300 min.
Elongation in %	24 min.
Reduction of Area in %	-
Hardness in HB	229 max.
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
F 80-107 Z 120 M 12	AFNOR NF	France	Steel
42 2920 422920	CSN	Czech Republic	Steel
SEW 395 1.3802	DIN	Germany	Steel
SEW 395 GX120Mn13	DIN	Germany	Steel
17145 1.3402	DIN	Germany	Wire Rods
17145 X 110 Mn 14	DIN	Germany	Wire Rods
A 128 B-2	ASTM	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

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