GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 276 Grade 3

Standard Specification for Austenitic-Manganese Steel Castings

Group - Ferrous Stainless Steel Alloys

Sub Group - IS 276 Grade 3 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 %	11.500 - 14.000
Phosphorus	P %	0.080 max.
Sulphur	S %	0.025 max.
Chromium	Cr %	1.500 - 2.500
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**
J91309	UNS	USA	Steel
A 128 C	ASTM	USA	Steel
SEW 395 1.3802	DIN	Germany	Steel
17145 1.3402	DIN	Germany	Wire Rods
17145 X 110 Mn 14	DIN	Germany	Wire Rods
SEW 395 GX120Mn13	DIN	Germany	Steel
3718 T 120 CrMn 130	STAS	Romania	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

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.