GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 2986 Grade 1

Standard Specification for Steel Casting for Marine Engines and Boilers

Group - Ferrous Mild Steel Alloys

Sub Group - IS 2986 Grade 1 Steel Casting for Marine Engines and Boilers

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	0.200 max.
Silicon	Si %	0.150 - 0.600
Manganese	Mn %	0.500 - 1.000
Sulphur	S %	0.040 max.
Phosphorus	P %	0.040 max.
Nickel	Ni %	0.040 max.
Chromium	Cr %	0.250 max.
Molybdenum	Mo %	0.150 max.
Copper	Cu %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Normalizing + Tempering

Mechanical Properties	
Tensile Strength in Mpa	400 - 510
Yield Strength in Mpa	200 min.
Elongation in %	22 min.
Reduction of Area in %	35 min.
Hardness in HV	-
Impact in Joule	-

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
6280 37 B	MSZ	Hungary	Steel
6280 37 C	MSZ	Hungary	Steel
6280 37 D	MSZ	Hungary	Steel
2074 C1	AS	Australia	Casting
EN 10016-4 C 9 D	UNI	Italy	Steel
EN 10016-2 C9D	DIN	Germany	Steel
10016-2 C 9 D	EN	European Union	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.