GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 2986 Grade 6

Standard Specification for Steel Casting for Marine Engines and Boilers

Group - Ferrous Mild Steel Alloys

Sub Group - IS 2986 Grade 6 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 %	0.400 - 0.700
Sulphur	S %	0.040 max.
Phosphorus	P %	0.040 max.
Nickel	Ni %	0.040 max.
Chromium	Cr %	2.000 - 2.750
Molybdenum	Mo %	0.900 - 1.200
Copper	Cu %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Normalizing + Tempering

Mechanical Properties	
Tensile Strength in Mpa	460 - 690
Yield Strength in Mpa	250 min.
Elongation in %	17 min.
Reduction of Area in %	30 min.
Hardness in HV	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
17243 1.7380	DIN	Germany	Steel and Bars
17176 10 CrMo 9 10	DIN	Germany	Steel
8184 10 CrMo 10	STAS	Romania	Steel
2883/3 12 MoCr 22	STAS	Romania	Steel
142218 2218	SS	Sweden	Steel
1502 622	B.S.	United Kingdom	Steel and Bars
2074 L5C	AS	Australia	Casting

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.