GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 2986 Grade 7

Standard Specification for Steel Casting for Marine Engines and Boilers

Group - Ferrous Mild Steel Alloys

Sub Group - IS 2986 Grade 7 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 %	0.180 max.
Silicon	Si %	0.150 - 0.500
Manganese	Mn %	0.400 - 0.800
Sulphur	S %	0.040 max.
Phosphorus	P %	0.040 max.
Nickel	Ni %	0.040 max.
Chromium	Cr %	0.250 - 0.500
Molybdenum	Mo %	0.500 - 0.700
Copper	Cu %	0.300 max.
Vanadium	V %	0.220 - 0.300
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Normalizing + Tempering

Mechanical Properties	
Tensile Strength in Mpa	510 - 690
Yield Strength in Mpa	280 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**
1501-2 660	B.S.	United Kingdom	Steel and Plates
3604-1 660	B.S.	United Kingdom	Steel and Pipe
1504 660	B.S.	United Kingdom	Steel and Casting
3100 B 7	B.S.	United Kingdom	Steel and Casting
9327-2 16 Mo 3	ISO	International	Steel and Bars
9330-2 16 Mo 3	ISO	International	Steel and Tubing
84024 20 MF	PN	Poland	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.