GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 7814 Grade II

Standard Specification for Phosphor Bronze Sheet, Strip and Foil

Group - Non-Ferrous Copper Alloy

Sub Group - IS 7814 Grade II Phosphor Bronze Sheet, Strip and Foil

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

Grade Belongs to the Industry - Sheet and Strip

Chemical Composition		
Tin	Sn %	4.500 - 5.500
Phosphorus	P %	0.030 - 0.350
Lead	Pb %	0.020 max.
Iron	Fe %	0.100 max.
Zinc	Zn %	0.300 max.
Cu + Sn + P	Cu% + Sn% + P%	99.500 min.
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Quarter Hardening or Half Hardening or Hardening or Extra Hardening or Spring Hardening

Mechanical Properties	
Tensile Strength in Mpa	310 min.
Yield Strength in Mpa	-
Elongation in %	45 min.
Reduction of Area in %	-
Hardness in HV	85 max.
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
C51000	UNS	USA	Bars, Plate, Sheet and Strip
2874 PB 102	B.S.	British	Rods and Forging
427 CuSn5	ISO	International	Plate, Sheet, Strip, Tubing, Rods, Bars, Wire and Forging
7811 CuSn5	IS	India	Bars and Rods
EN 12163 CuSn5	DIN	Germany	Rods
EN 1654 CuSn5	DIN	Germany	Strip
B 103 C51000	ASTM	USA	Bars, Plate, Sheet and Strip

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.