GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 28 Grade1

Standard Specification for Phosphor Bronze Ingots and Castings

Group - Non Ferrous Copper Alloys

Sub Group - IS 28 Grade1 Phosphor Bronze Ingots and Castings

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

Grade Belongs to the Industry - Ingot and Casting

Chemical Composition		
Tin	Sn %	6.000 - 8.000
Phosphorus	P %	0.300 - 0.500
Lead	Pb %	0.250 max.
Zinc	Zn %	0.500 max.
Nickel	Ni %	0.700 max.
Iron	Fe %	0.300 max.
Aluminium	Al %	0.010 max.
Antimony	Sb %	0.100 max.
Silicon	Si %	0.020 max.
Other	Ot %	1.200 max.
Copper	Cu %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Cast

Mechanical Properties	
Tensile Strength in Mpa	190 min.
Yield Strength in Mpa	-
Elongation in %	3 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
C52100	UNS	USA	Ingot and Casting
C89320	UNS	USA	Casting
1458 Class 1	IS	India	Ingot and Casting
B 505 C89320	ASTM	USA	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.