



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BSI BS1400 CT2 CuSn12Ni

Standard Specification for Copper Alloy and High Conductivity Conductivity Copper Casting

Group - Non-Ferrous Copper Alloy

Sub Group - BSI BS1400 Copper Alloy and High Conductivity Conductivity Copper Casting

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

Grade Belongs to the Industry - Ingot and Casting

Chemical Composition			Heat Treatment	
Tin	Sn %	11.000 - 13.000	As-Cast	
Zinc	Zn %	0.400 max.		
Lead	Pb %	0.300 max.		
Phosphorus	P %	0.050 - 0.400		
Nickel	Ni %	1.500 - 2.500		
Iron	Fe %	0.200 max.		
Aluminium	Al %	0.010 max.		
Manganese	Mn %	0.020 max.		
Silicon	Si %	0.010 max.		
Sulphur	S %	0.050 max.		
Other	Ot%	0.800 max.	Mechanical Properties	
Copper	Cu %	85.000 - 87.500	Tensile Strength in Mpa	280 min.
-	-	-	Yield Strength in Mpa	160 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C91700	AS	Australia	Ingot and Casting
CuSn12Ni2	ISO	International	Ingot and 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.

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