



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - BDS EN 1982 CuSn12Ni2-C

**Standard Specification for Copper and Copper Alloys - Ingots and Castings**

**Group - Non-Ferrous Copper Alloy**

**Sub Group - BDS EN 1982 Copper and Copper Alloys - Ingots and Castings**

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

**Grade Belongs to the Industry - Ingot and Casting**

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.010 max.	As-Cast	
Iron	Fe %	0.200 max.		
Manganese	Mn %	0.200 max.		
Nickel	Ni %	1.500 - 2.500		
Phosphorus	P %	0.050 - 0.400		
Lead	Pb %	0.300 max.		
Sulphur	S %	0.050 max.		
Antimony	Sb %	0.100 max.		
Silicon	Si %	0.010 max.		
Tin	Sn %	11.000 - 13.000		
Zinc	Zn %	0.400 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa      280 - 300 Yield Strength in Mpa      160 - 180 Elongation in %      8 - 12 Reduction of Area in %      - Hardness in HB      85 - 95 Impact in Joule      -	
Cu + Ni	Cu%+Ni%	84.500 - 87.500		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CB484K	BS	British	Ingot and Casting
CC484K	AFNOR NF	France	Ingot and Casting
CuSn12Ni2-C	AFNOR NF	France	Ingot and Casting
CC484K	BDS	Bulgaria	Ingot and Casting
CC484K	DIN	Germany	Ingot and Casting
CuSn12Ni2-C	DIN	Germany	Ingot and Casting
CuSn12Ni2-C	UNI	Italy	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](mailto: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.

**ONE STOP SOLUTION FOR METAL PARTS**