



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

## Material - UNI EN 1982 CuSn10-B

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

**Group - Non-Ferrous Copper Alloy**

**Sub Group - UNI 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 %	0.150 max.		
Manganese	Mn %	0.100 max.		
Nickel	Ni %	1.800 max.		
Phosphorus	P %	0.050 max.		
Lead	Pb %	0.800 max.		
Sulphur	S %	0.040 max.		
Antimony	Sb %	0.150 max.		
Silicon	Si %	0.010 max.	Mechanical Properties	
Tin	Sn %	9.300 - 11.000	Tensile Strength in Mpa	250 - 326
Zinc	Zn %	0.500 max.	Yield Strength in Mpa	130 - 170
Cu + Ni	Cu%+Ni%	88.500 - 90.500	Elongation in %	10 - 45.6
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	70 - 80
-	-	-	Impact in Joule	48.4 - 49.9 @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CC480K	BS	British	Ingot and Casting
CB480K	AFNOR NF	France	Ingot and Casting
CB480K	DIN	Germany	Ingot and Casting
CB480K	BDS	Bulgaria	Ingot and Casting
CuSn10-B	ONORM	Australia	Ingot and Casting
CuSn10-B	MSZ	Hungary	Ingot and Casting
CuSn10-B	UNE	Spain	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**