



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

## Material - ANSI/AA C86500

### Specification Standards for Die Castings

Group - Non-Ferrous Copper Alloy

Sub Group - ANSI/AA for Die Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment			
Tin	Sn %	1.000 max.	As-Cast			
Lead	Pb %	0.400 max.				
Zinc	Zn %	36.000 - 42.000				
Iron	Fe %	0.400 - 2.000				
Aluminium	Al %	0.500 - 1.500				
Manganese	Mn %	0.100 - 1.500				
Nickel	Ni %	1.000 max.				
Other	Ot%	1.000 max.				
Copper	Cu %	55.000 - 60.000				
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-	-	-	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	489 min.		
-	-	-	Yield Strength in Mpa	193 min		
-	-	-	Elongation in %	30 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	100 min.		
-	-	-	Impact in Joule	43 min.		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**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**