



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

## ASTM B271 High-Strength Yellow Brass UNS C86500

**Standard Specification for Copper-Base Alloy Centrifugal Castings**

**Group - Non-Ferrous Copper Alloy**

**Sub Group - ASTM B271 Copper-Base Alloy Centrifugal Castings**

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

**Grade Belongs to the Industry - Rod, Bar, Tube and Shapes**

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		
Ni + Co	Ni% + Co%	1.000 max.		
Aluminium	Al %	0.500 - 1.500		
Manganese	Mn %	0.100 - 1.500		
Copper	Cu %	55.000 - 60.000		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	448 min.
			Yield Strength in Mpa	172 min.
			Elongation in %	20 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B147-8A	ASTM	USA	Casting
SB-505 C86500	ASME	USA	Casting
SB-584 C86500	SAE	USA	Casting
C86500	SAE	USA	Casting
CA865	SAE	USA	Casting
SAE 43	SAE	USA	Casting
C86500	AS	Australia	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**