



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

## Material - ASTM B271 Leaded Yellow Brass UNS C85700

**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 %	0.500 - 1.500	As-Cast	
Lead	Pb %	0.800 - 1.500		
Zinc	Zn %	32.000 - 40.000		
Iron	Fe %	0.700 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Aluminium	Al %	0.550 max.		
Silicon	Si %	0.050 max.		
Copper	Cu %	58.000 - 64.000		
-	-	-		
Mechanical Properties				
-			Tensile Strength in Mpa	276 min.
-			Yield Strength in Mpa	97 min.
-			Elongation in %	15 min.
-			Reduction of Area in %	-
-			Hardness in BHN	-
-			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B176 C85700	ASTM	USA	Casting
B271 C85700	ASTM	USA	Casting
B30 C85700	ASTM	USA	Casting
B505 C85700	ASTM	USA	Casting
B584 C85700	ASTM	USA	Casting
SB-584 C85700	ASME	USA	Casting
CACIn203	KS	Korea	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.

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