



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

ASTM B271 High-Strength Yellow Brass UNS C86300

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 %	0.200 max.	As-Cast	
Lead	Pb %	0.200 max.		
Zinc	Zn %	22.000 - 28.000		
Iron	Fe %	2.000 - 4.000		
Ni + Co	Ni% + Co%	1.000 max.		
Aluminium	Al %	5.000 - 7.500		
Manganese	Mn %	2.500 - 5.000		
Copper	Cu %	60.000 - 66.000		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	758 min.
-	-	-	Yield Strength in Mpa	414 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B271 C86300	ASTM	USA	Casting
B30 C86300	ASTM	USA	Ingot and Casting
CA863	SAE	USA	Casting
SAE 430B	SAE	USA	Casting
SB-505 C86300	ASME	USA	Casting
SB-584 C86300	ASME	USA	Casting
C86300	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

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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