



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

## Material - ASTM B66 C93400

### Standard Specification for Gear Bronze Alloy Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B427 Gear Bronze Alloy Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.005 max.	As-Cast	
Iron	Fe %	0.200 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Phosphorus	P %	0.500 max.		
Lead	Pb %	7.000 - 9.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.500 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	7.000 - 9.000		
Zinc	Zn %	0.800 max.		
Copper	Cu %	82.000 - 85.000	<b>Mechanical Properties</b> Tensile Strength in Mpa      234 min. Yield Strength in Mpa      138 min. Elongation in %      8 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C93400	UNS	USA	Rod, Bar, Tube and Shapes
B30 C93400	ASTM	USA	Ingot and Casting
B 505 C93400	ASTM	USA	Casting
SB-505 C93400	ASME	USA	Casting
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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**