



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

## Material - ASTM B22 C93700

**Standard Specification for Bronze Casting Application for Construction Industry**

**Group - Non-Ferrous Copper Alloy**

**Sub Group - ASTM B22 Bronze Casting Application for Construction Industry**

**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 %	0.700 max.		
Ni + Co	Ni% + Co%	0.500 max.		
Phosphorus	P %	0.100 max.		
Lead	Pb %	8.000 - 11.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.500 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	9.000 - 11.000		
Zinc	Zn %	0.800 max.		
Copper	Cu %	78.000 - 82.000	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	205 - 240
-	-	-	Yield Strength in Mpa	85 - 140
-	-	-	Elongation in %	6 - 15
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C93700	UNS	USA	Rod, Bar, Tube and Shapes
B30 C93700	ASTM	USA	Ingot and Casting
SB-505 C93700	ASME	USA	Casting
SB-584 C93700	ASME	USA	Casting
C93700	SAE	USA	Casting
CA937	SAE	USA	Casting
C93700	AS	Australia	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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