



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

## Material - IS 306

### Standard Specification for Tin Bronze Ingots and Castings

Group - Non-Ferrous Copper Alloy

Sub Group - IS 306 Tin Bronze Ingots and Castings

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

Grade Belongs to the Industry - Ingot and Casting

Chemical Composition			Heat Treatment	
Tin	Sn %	9.500 - 10.500	As-Cast	
Zinc	Zn %	1.500 - 3.000		
Lead	Pb %	1.500 max.		
Nickel	Ni %	1.000 max.		
Iron	Fe %	0.150 max.		
Aluminium	Al %	0.010 max.		
Silicon	Si %	0.020 max.		
Bismuth	Bi %	0.030 max.		
Other	Ot%	0.500 max.		
Copper	Cu %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      260 min. Yield Strength in Mpa      120 min. Elongation in %      13 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
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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**