



## Material - IS 305 Grade AB 1

### Standard Specification for Aluminium Bronze Ingots and Castings

Group - Non-Ferrous Copper Alloy

Sub Group - IS 305 Aluminium 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	
Lead	Pb %	0.050 max.	As-Cast	
Tin	Sn %	0.100 max.		
Silicon	Si %	0.250 max.		
Nickel	Ni %	1.000 max.		
Magnesium	Mg %	0.050 max.		
Zinc	Zn %	0.050 max.		
Manganese	Mn %	1.000 max.		
Iron	Fe %	1.500 - 3.500		
Aluminium	Al %	8.500 - 10.500		
Other	Ot%	0.300 max.		
Copper	Cu %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   500 min. Yield Strength in Mpa   170 min. Elongation in %   18 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**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.