



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

## Material - IS 1545 CuZn29Sn1As-HD

**Standard Specification for Solid drawn Copper and Copper Alloy Tubes for Condenser and Heat Exchangers**

**Group - Non-Ferrous Copper Alloy**

**Sub Group - IS 1545 Solid drawn Copper and Copper Alloy Tubes for Condenser and Heat Exchangers**

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

**Grade Belongs to the Industry - Tube**

Chemical Composition			Heat Treatment	
Arsenic	As %	0.020 - 0.060	As Drawn or Annealing or Half Hardening or Tempering & Annealing or Annealing	
Iron	Fe %	0.060 max.		
Nickel	Ni %	0.100 max.		
Other	Ot%	0.300 max.		
Lead	Pb %	0.070 max.		
Tin	Sn %	0.900 - 1.500		
Copper	Cu %	70.000 - 73.000		
Zinc	Zn %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	385 min.
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HV	130 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuZn29Sn1As	IS	India	Tube
CuZn29Sn1As-O	IS	India	Tube
CuZn29Sn1As-TA	IS	India	Tube
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**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**