



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

## Material - IS 1545 CuNi10Fe1-O

**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	
Iron	Fe %	1.000 - 1.8000	As Drawn or Annealing or Half Hardening or Tempering & Annealing or Annealing	
Manganese	Mn %	0.500 - 1.000		
Nickel	Ni %	9.000 - 11.000		
Other	Ot%	0.300 max.		
Lead	Pb %	0.050 max.		
Zinc	Zn %	0.500 max.		
Cu + Ag	Cu% + Ag%	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa   295 min. Yield Strength in Mpa   - Elongation in %   35 min. Reduction of Area in %   - Hardness in HV   110 min. Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuNi10Fe1	IS	India	Tube
CuNi10Fe1-HD	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**