



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 4412

Standard Specification for Copper Wires for General Engineering Purposes

Group - Non-Ferrous Copper Alloy

Sub Group - IS 4412 Copper Wires for General Engineering Purposes

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

Grade Belongs to the Industry - Wire

Chemical Composition			Heat Treatment	
Phosphorus	P %	0.015 - 0.100	Annealing or Half Hardening or Hardening	
Antimony	Sb %	0.005 max.		
Arsenic	As %	0.050 max.		
Bismuth	Bi %	0.003 max.		
Iron	Fe %	0.030 max.		
Lead	Pb %	0.010 max.		
Nickel	Ni %	0.100 max.		
Selenium + Tellurium	Se % + Te%	0.020 max.		
Tellurium	Te %	0.010 max.		
Tin	Sn %	0.010 max.		
Other	Ot%	0.060 max.	Mechanical Properties Tensile Strength in Mpa 225 max. Yield Strength in Mpa - Elongation in % 35 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
Copper + Silver	Cu% + Ag%	99.800 max.		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

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

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