



## Material - IS 14811 CuATP-HA

**Standard Specification for Rolled Copper Plate, Sheet, Strip and Foils for General Engineering Purposes**

**Group - Non-Ferrous Copper Alloy**

**Sub Group - IS 14811 Rolled Copper Plate, Sheet, Strip and Foils for General Engineering Purposes**

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

**Grade Belongs to the Industry - Plate, Sheet, Strip and Foils**

Chemical Composition			Heat Treatment	
Arsenic	As %	0.200 - 0.500	As Drawn or Annealing or Half Hardening or Tempering & Annealing or Annealing	
Bismuth	Bi %	0.005 max.		
Iron	Fe %	0.020 max.		
Nickel	Ni %	0.150 max.		
Oxygen	O %	0.100 max.		
Lead	Pb %	0.020 max.		
Antimony	Sb %	0.010 max.		
Se + Te	Se% + Te%	0.030 max.		
Tin	Sn %	0.030 max.		
Cu + Ag	Cu% + Ag%	99.200 min.		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa   215 min. Yield Strength in Mpa   - Elongation in %   25 min. Reduction of Area in %   - Hardness in HV   55 - 75 Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Cu-ATP	IS	India	Ingot and Casting
CuATP-HB	IS	India	Plate, Sheet, Strip and Foils
CuATP-HD	IS	India	Plate, Sheet, Strip and Foils
CuATP-O	IS	India	Plate, Sheet, Strip and Foils
-	-	-	-
-	-	-	-
-	-	-	-

**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.