



## Material - IS 14811 CuATP-O

**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   195 min. Yield Strength in Mpa   - Elongation in %   35 min. Reduction of Area in %   - Hardness in HV   55 min. Impact in Joule   -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Cu-ATP	IS	India	Ingot and Casting
CuATP-HA	IS	India	Plate, Sheet, Strip and Foils
CuATP-HB	IS	India	Plate, Sheet, Strip and Foils
CuATP-HD	IS	India	Plate, Sheet, Strip and Foils
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**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)**

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