



## Material - IS 14811 CuFRTP-1-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 %	0.020 max.	As-Cast	
Bismuth	Bi %	0.003 max.		
Iron	Fe %	0.010 max.		
Nickel	Ni %	0.050 max.		
Oxygen	O %	0.100 max.		
Other	Ot%	0.050 max.		
Lead	Pb %	0.005 max.		
Antimony	Sb %	0.005 max.		
Se + Te	Se% + Te%	0.025 max.		
Tin	Sn %	0.010 max.		
Cu + Ag	Cu% + Ag%	99.850 min.	Mechanical Properties	
-	-	-	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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Cu-FRTP-1	IS	India	Ingot and Casting
CuFRTP-1-HA	IS	India	Plate, Sheet, Strip and Foils
CuFRTP-1-HB	IS	India	Plate, Sheet, Strip and Foils
CuFRTP-1-HD	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)**

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