

# Material: IS 14811 CuFRTP-1-HD

## 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		
Arsenic	As %	0.020 max.
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.
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast	
Mechanical Properties	
Tensile Strength in Mpa	275 min.
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HV	90 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-O	IS	India	Plate, Sheet, Strip and Foils
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-	-	-	-
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