

## Material: IS 14811 CuFRTP-1-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 %	0.020 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.	<b>Mechanical Properties</b> Tensile Strength in Mpa 250 min. Yield Strength in Mpa - Elongation in % 15 min. Reduction of Area in % - Hardness in HV 75 - 90 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Cu-FRTP-1	IS	India	Ingot and Casting
CuFRTP-1-HB	IS	India	Plate, Sheet, Strip and Foils
CuFRTP-1-HD	IS	India	Plate, Sheet, Strip and Foils
CuFRTP-1-O	IS	India	Plate, Sheet, Strip and Foils
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