

## Material: IS 191 Cu-ETP

## Standard Specification for Copper

### **Group: Non-Ferrous Copper Alloy Sub**

## Group: IS 191 Copper

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

### **Belongs to the Industry: Ingot and Casting**

### Heat Treatment

Heat Treatment	As-Cast	Heat-Treated
Low	100	120
Medium	95	130
High	80	140

As-Cast

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Cu FRHC	IS	India	Ingot and Casting
CuCATH-HB	IS	India	Strip
CuCATH-HD	IS	India	Strip
CuCATH-O	IS	India	Strip
CuETP-HA	IS	India	Plate, Sheet, Strip and Foils
CuETP-HB	IS	India	Strip
C 101	BS	British	Rod and Section

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