

## Material: IS 191 Cu DHP

### Standard Specification for Copper and Copper Alloy

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** IS 191 Copper and Copper Alloy

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

**Belongs to the Industry:** Tube

Chemical Composition			Heat Treatment	
Arsenic	As %	0.050 max.	Normalizing or Annealing or Tempering	
Bismuth	Bi %	0.003 max.		
Iron	Fe %	0.030 max.		
Nickel	Ni %	0.100 max.		
Other	Ot%	0.060 max.		
Phosphorus	P %	0.015 - 0.100		
Lead	Pb %	0.010 max.		
Antimony	Sb %	0.005 max.		
Se + Te	Se% + Te%	0.020 max.		
Tin	Sn %	0.010 max.		
Tellurium	Te %	0.010 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa 195 - 340 Yield Strength in Mpa - Elongation in % 25 - 45 Reduction of Area in % - Hardness in BHN - Impact in Joule -	
Cu + Ag	Cu% + Ag%	99.800 min.		
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-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10773 Grade 2	IS	India	Tube
CuDHP-HB	IS	India	Plate, Sheet, Strip and Foil
CuDHP-HD	IS	India	Plate, Sheet, Strip and Foil
CuDHP-O	IS	India	Plate, Sheet, Strip and Foil
CuDHP-HA	IS	India	Plate, Sheet, Strip and Foil
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