

## Material: IS 4412

### Standard Specification for Copper Wires for General Engineering Purposes

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** IS 4412 Copper Wires for General Engineering Purposes

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

**Belongs to the Industry:** Wire

Chemical Composition			Heat Treatment	
Phosphorus	P %	0.015 - 0.100	Annealing or Half Hardening or Hardening	
Antimony	Sb %	0.005 max.		
Arsenic	As %	0.050 max.		
Bismuth	Bi %	0.003 max.		
Iron	Fe %	0.030 max.		
Lead	Pb %	0.010 max.		
Nickel	Ni %	0.100 max.		
Selenium + Tellurium	Se % + Te%	0.020 max.		
Tellurium	Te %	0.010 max.		
Tin	Sn %	0.010 max.		
Other	Ot%	0.060 max.		
Copper + Silver	Cu% + Ag%	99.800 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa 225 max. Yield Strength in Mpa - Elongation in % 35 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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