

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		
Phosphorus	P %	0.015 - 0.100
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.
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Half Hardening or Hardening

Mechanical Properties	
Tensile Strength in Mpa	225 max.
Yield Strength in Mpa	-
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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