

# Material: IS 1545 CuNi10Fe1

## Standard Specification for Solid Drawn Copper and Copper Alloy Tube for Condenser and Heat Exchangers

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** IS 1545 Solid Drawn Copper and Copper Alloy Tube for Condenser and Heat Exchangers

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

**Belongs to the Industry:** Tube

Chemical Composition		
Lead	Pb %	0.050 max.
Iron	Fe %	1.000 - 1.800
Manganese	Mn %	0.500 - 1.000
Nickel	Ni %	9.000 - 11.000
Zinc	Zn %	0.500 max.
Other	Ot%	0.300 max.
Copper	Cu %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Drawn or Annealing or Half Hardening or Tempering & Annealing or Annealing

Mechanical Properties	
Tensile Strength in Mpa	295 min.
Yield Strength in Mpa	-
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in HV 5	110 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuNi10Fe1-HD	IS	India	Tube
CuNi10Fe1-O	IS	India	Tube
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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