

# Material: IS 1545 CuNi30Mn1Fe-O

## Standard Specification for Solid drawn Copper and Copper Alloy Tubes for Condenser and Heat Exchangers

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** IS 1545 Solid drawn Copper and Copper Alloy Tubes for Condenser and Heat Exchangers

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

**Belongs to the Industry:** Tube

Chemical Composition		
Iron	Fe %	0.400 - 1.000
Manganese	Mn %	0.500 - 1.000
Nickel	Ni %	29.000 - 33.000
Other	Ot%	0.300 max.
Lead	Pb %	0.050 max.
Zinc	Zn %	0.500 max.
Cu + Ag	Cu% + Ag%	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	360 min.
Yield Strength in Mpa	-
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in HV	115 min.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuNi30Mn1Fe	IS	India	Tube
CuNi30Mn1Fe-HD	IS	India	Tube
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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