

## 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			Heat Treatment	
Lead	Pb %	0.050 max.	As Drawn or Annealing or Half Hardening or Tempering & Annealing or Annealing	
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		
-	-	-	<b>Mechanical Properties</b> 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 -	
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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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