

# Material: ISO CuNi18Zn27

## Standard Specification for Wrought Copper and Copper Alloy Plate, Sheet and Strip

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ISO Wrought Copper and Copper Alloy Plate, Sheet and Strip

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

**Belongs to the Industry:** Plate, Sheet and Strip

Chemical Composition		
Iron	Fe %	0.300 max.
Manganese	Mn %	0.500 max.
Nickel	Ni %	17.000 - 19.000
Lead	Pb %	0.050 max.
Copper	Cu %	53.000 - 56.000
Zinc	Zn %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Tempering

Mechanical Properties	
Tensile Strength in Mpa	430 - 830
Yield Strength in Mpa	180 - 700
Elongation in %	2 - 45
Reduction of Area in %	-
Hardness in HRB	65 - 99
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuNi18Zn27	IS	India	Rod and Bar
B122 C77000	ASTM	USA	Plate, Sheet, Strip and Rolled Bar
B151 C77000	ASTM	USA	Rod and Bar
B206 C77000	ASTM	USA	Wire
CuNi18Zn20	ISO	International	Plate, Sheet and Strip
CuNi18Zn27	AFNOR NF	France	Plate, Sheet and Strip
CuNi18Zn27	DIN	Germany	Plate, Sheet and Strip

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