

# Material: AFNOR NF CEN/TS 13388 CuNi18Zn27

## Standard Specification for Copper and Copper Alloy

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** AFNOR NF CEN/TS 13388 Copper and Copper Alloy

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

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

Chemical Composition			Heat Treatment	
Iron	Fe %	0.300 max.	Normalizing or Annealing or Tempering	
Manganese	Mn %	0.500 max.		
Nickel	Ni %	17.000 - 19.000		
Other	Ot%	0.200 max.		
Lead	Pb %	0.030 max.		
Tin	Sn %	0.030 max.		
Copper	Cu %	53.000 - 56.000		
Zinc	Zn %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	390 - 800
-	-	-	Yield Strength in Mpa	280 - 660
-	-	-	Elongation in %	2 - 30
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HV	90 - 250
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuNi18Zn27	IS	India	Rod and Bar
CuNi18Zn27	ISO	International	Plate, Sheet and Strip
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	DIN	Germany	Plate, Sheet and Strip

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