

## Material: ISO 1637 CuZn38Sn1

### Standard Specification for Wrought Copper and Copper Alloy Rod and Bar

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ISO 1637 Wrought Copper and Copper Alloy Rod and Bar

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

**Belongs to the Industry:** Rod and Bar

Chemical Composition			Heat Treatment	
Iron	Fe %	0.100 max.	Normalizing or Annealing or Tempering	
Lead	Pb %	0.200 max.		
Tin	Sn %	0.500 - 1.200		
Copper	Cu %	59.000 - 62.000		
Zinc	Zn %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	370 - 470
-	-	-	Yield Strength in Mpa	180 - 310
-	-	-	Elongation in %	13 - 30
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRB	70 - 80
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuZn39Sn	IS	India	Plate
B171 C46400	ASTM	USA	Plate and Sheet
B283 C46400	ASTM	USA	Forging
CZ 133	BS	British	Rod and Section
SB-171 C46400	ASME	USA	Plate and Sheet
SB-283 C46400	ASME	USA	Forging
F467 C46400	ASTM	USA	Nut

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