

## Material: ASTM B283 C46400

### Standard Specification for Copper and Copper-Alloy Die Forgings

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASTM B283 Copper and Copper-Alloy Die Forgings

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

**Belongs to the Industry:** Forging

Chemical Composition			Heat Treatment	
Iron	Fe %	0.100 max.	Normalizing or Annealing or Tempering	
Lead	Pb %	0.200 max.		
Tin	Sn %	0.500 - 1.000		
Copper	Cu %	59.000 - 62.000		
Zinc	Zn %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	358 - 440
-	-	-	Yield Strength in Mpa	152 - 180
-	-	-	Elongation in %	25 - 40
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRB	55 min.
-	-	-	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
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
CuZn38Sn1	ISO	International	Rod and Bar

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