

# Material: ASME SB-283 C46400

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

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASME SB-283 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 min.
-	-	-	Yield Strength in Mpa	152 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	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
F467 C46400	ASTM	USA	Nut
CuZn38Sn1	ISO	International	Rod and Bar

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