

# Material: IS 12443 Naval Brass CuZn39Sn

## Standard Specification for Rolled Brass Plates for General Engineering

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** IS 12443 Rolled Brass Plates for General Engineering

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

**Belongs to the Industry:** Plate

Chemical Composition		
Lead	Pb %	0.020 max.
Tin	Sn %	0.500 - 1.000
Iron	Fe %	0.100 max.
Other	Ot%	0.500 max.
Copper	Cu %	59.800 - 62.000
Zinc	Zn %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw

Mechanical Properties	
Tensile Strength in Mpa	305 min.
Yield Strength in Mpa	-
Elongation in %	20 min .
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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
CuZn38Sn1	ISO	International	Rod and Bar

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