

# Material: UNI ISO 4382 CuPb15Sn8

## Standard Specification for Cast Copper Alloys for Solid and Multilayer Thick-Walled Plain Bearings

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** UNI ISO 4382 Cast Copper Alloys for Solid and Multilayer Thick-Walled Plain Bearings

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

**Belongs to the Industry:** Ingot and Casting

Chemical Composition		
Aluminium	Al %	0.010 max.
Iron	Fe %	0.250 max.
Manganese	Mn %	0.200 max.
Nickel	Ni %	2.000 max.
Phosphorus	P %	0.100 max.
Lead	Pb %	13.000 - 17.000
Sulphur	S %	0.100 max.
Antimony	Sb %	0.500 max.
Silicon	Si %	0.010 max.
Tin	Sn %	7.000 - 9.000
Zinc	Zn %	2.000 max.
Copper	Cu %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
	As-Cast

Mechanical Properties	
Tensile Strength in Mpa	170 - 220
Yield Strength in Mpa	80 - 100
Elongation in %	3 - 8
Reduction of Area in %	-
Hardness in HB	60 - 65
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
LB 1	BS	British	Ingot and Casting
CuPb15Sn8	ISO	International	Ingot and Casting
CuPb15Sn8	KS	Korea	Ingot and Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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