

# Material: ISO 4382 CuPb20Sn5

## Standard Specification for Copper and Copper Alloys - Ingots and Castings

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ISO 4382 Cast Copper Alloys - Ingots and Castings

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

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

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.010 max.	As-Cast	
Iron	Fe %	0.250 max.		
Manganese	Mn %	0.200 max.		
Nickel	Ni %	2.500 max.		
Phosphorus	P %	0.100 max.		
Lead	Pb %	18.000 - 23.000		
Sulphur	S %	0.100 max.		
Antimony	Sb %	18.000 - 23.000		
Silicon	Si %	0.010 max.		
Tin	Sn %	4.000 - 6.000		
Zinc	Zn %	2.000 max.	Mechanical Properties	
Copper	Cu %	Balance	Tensile Strength in Mpa	150 - 180
-	-	-	Yield Strength in Mpa	60 - 80
-	-	-	Elongation in %	5 - 7
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	45 - 50
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
LB 5	BS	British	Ingot and Casting
941C	AS	Australia	Ingot and Casting
C94100	AS	Australia	Ingot and Casting
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-	-	-	-
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