

# Material: ASTM B505 Leaded Tin Bronze UNS C92300

## Standard Specification for Copper Alloy Continuous Casting

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASTM B505 / 505M Copper Alloys for Continuous Casting

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

**Belongs to the Industry:** Rod, Bar, Tube and Shapes

Chemical Composition			Heat Treatment	
Tin	Sn %	7.500 - 9.000	As-Cast	
Lead	Pb %	0.300 - 1.000		
Zinc	Zn %	2.500 - 5.000		
Ni + Cu	Ni% + Cu%	1.000 max.		
Iron	Fe %	0.250 max.		
Antimony	Sb %	0.250 max.		
Sulphur	S %	0.050 max.		
Phosphorus	P %	1.500 max.		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.005 max.		
Copper	Cu %	85.000 - 89.000		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	276 min.
			Yield Strength in Mpa	131 min.
			Elongation in %	16 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B30 2B	ASTM	USA	Ingot and Casting
B30 C92300	ASTM	USA	Ingot and Casting
B271 C92300	ASTM	USA	Casting
B505 C92300	ASTM	USA	Casting
B584 C92300	ASTM	USA	Casting
SB-505 C92300	ASME	USA	Casting
CA923	SAE	USA	Ingot and Casting

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