

## Material: ASTM B505 Tin Bronze UNS C90500

### 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 %	9.000 - 11.000	As-Cast	
Lead	Pb %	0.300 max.		
Zinc	Zn %	1.000 - 3.000		
Ni + Cu	Ni% + Cu%	1.000 max.		
Iron	Fe %	0.200 max.		
Antimony	Sb %	0.200 max.		
Sulphur	S %	0.050 max.		
Phosphorus	P %	1.500 max.		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.005 max.		
Copper	Cu %	86.000 - 89.000		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	303 min.
			Yield Strength in Mpa	172 min.
			Elongation in %	10 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B30 C90500	ASTM	USA	Ingot and Casting
B271 C90500	ASTM	USA	Casting
SB-505 C90500	ASME	USA	Casting
SB-584 C90500	ASME	USA	Casting
CA905	SAE	USA	Casting
SAE62	SAE	USA	Casting
4845	SAE	USA	Casting

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