

## Material: ASTM B505 Leaded Nickel-Tin Bronze UNS C94800

### 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 %	4.500 - 6.000	As-Cast	
Lead	Pb %	0.300 - 1.000		
Zinc	Zn %	1.000 - 2.500		
Ni + Cu	Ni% + Cu%	4.500 - 6.000		
Iron	Fe %	0.250 max.		
Antimony	Sb %	0.150 max.		
Sulphur	S %	0.050 max.		
Phosphorus	P %	0.050 max.		
Aluminium	Al %	0.005 max.		
Manganese	Mn %	0.200 max.		
Silicon	Si %	0.005 max.		
Copper	Cu %	84.000 - 89.000		
-	-	-		
-	-	-		
-	-	-		

  

Mechanical Properties	
Tensile Strength in Mpa	276 min.
Yield Strength in Mpa	138 min.
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
B292-B	ASTM	USA	Casting
B30 C94800	ASTM	USA	Ingot and Casting
B505 C94800	ASTM	USA	Casting
B584 C94800	ASTM	USA	Casting
SB-505 C94800	ASME	USA	Casting
C94800	SAE	USA	Casting
CA948	SAE	USA	Casting

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