

Material: ASTM B505 High-Leaded Tin Bronze UNS C94300

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 %	23.000 - 27.000		
Zinc	Zn %	0.800 max.		
Ni + Cu	Ni% + Cu%	1.000 max.		
Iron	Fe %	0.150 max.		
Antimony	Sb %	0.800 max.		
Sulphur	S %	0.080 max.		
Phosphorus	P %	1.500 max.		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.005 max.		
Copper	Cu %	67.000 - 72.000		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	145 min.
			Yield Strength in Mpa	103 min.
			Elongation in %	7 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B144-3E	ASTM	USA	Casting
B30 C94300	ASTM	USA	Ingot and Casting
B505 C94300	ASTM	USA	Casting
C94300	SAE	USA	Casting
CA943	SAE	USA	Casting
SB-505 C94300	ASME	USA	Casting
SB-584 C94300	ASME	USA	Casting

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