

Material: ASTM B505 Leaded Red Brass UNS C83600

Standard Specification for Copper Alloy Continuous Castings

Group: Non-Ferrous Copper Alloy

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

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 %	4.000 - 6.000	As-Cast	
Lead	Pb %	4.000 - 6.000		
Zinc	Zn %	4.000 - 6.000		
Ni + Cu	Ni% + Cu%	1.000 max.		
Iron	Fe %	0.300 max.		
Antimony	Sb %	0.250 max.		
Sulphur	S %	0.080 max.		
Phosphorus	P %	1.500 max.		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.005 max.		
Copper	Cu %	84.000 - 86.000	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	248 min.
-	-	-	Yield Strength in Mpa	131 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C83600	SAE	USA	Casting
B271 C83600	ASTM	USA	Casting
B505 C83600	ASTM	USA	Casting
B584 C83600	ASTM	USA	Casting
B30 C83600	ASTM	USA	Casting
B62 C83600	ASTM	USA	Casting
4855	SAE	USA	Casting

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