

# Material: ASTM B505 Leaded Red Brass UNS C83800

## 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 %	3.300 - 4.200	As-Cast	
Lead	Pb %	5.000 - 7.000		
Zinc	Zn %	5.000 - 8.000		
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 %	82.000 - 83.800	<b>Mechanical Properties</b> Tensile Strength in Mpa      207 min. Yield Strength in Mpa      97 min. Elongation in %      16 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C83800	SAE	USA	Casting
B145-4B	ASTM	USA	Casting
B30 C83800	ASTM	USA	Casting
B505 C83800	ASTM	USA	Casting
CA838	SAE	USA	Casting
B584 C83800	ASTM	USA	Casting
SB-505 C83800	ASME	USA	Casting

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