



## Material - ASTM B145-4B

### Standard Specification for Copper Alloy Sand Casting for General Applications

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B145 Copper Alloy Sand Casting for General Applications

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.005 max.	As-Cast	
Iron	Fe %	0.300 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Phosphorus	P %	0.030 max.		
Lead	Pb %	5.000 - 7.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.250 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	3.300 - 4.200		
Zinc	Zn %	5.000 - 8.000		
Copper	Cu %	82.000 - 83.800	<b>Mechanical Properties</b> Tensile Strength in Mpa      207 min. Yield Strength in Mpa      90 min. Elongation in %      20 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
-	-	-		
-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C83800	UNS	USA	Rod, Bar, Tube and Shapes
C83800	SAE	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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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