



Material - ASTM B 145-5B

Standard Specification for Copper Alloy Sand Casting for General Applications

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B 145 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 %	0.400 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Phosphorus	P %	0.020 max.		
Lead	Pb %	5.500 - 7.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.250 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	2.000 - 3.000		
Zinc	Zn %	13.000 - 17.000		
Copper	Cu %	75.000 - 77.000	Mechanical Properties Tensile Strength in Mpa 193 min. Yield Strength in Mpa 83 min. Elongation in % 16 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C84800	UNS	USA	Rod, Bar, Tube and Shapes
B271 C84800	ASTM	USA	Casting
B30 C84800	ASTM	USA	Ingot and Casting
B505 C84800	ASTM	USA	Rod, Bar Tube and Shapes
B584 C84800	ASTM	USA	Casting
SB-505 C84800	ASME	USA	Casting
SB-584 C84800	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.