

Material: ASTM B145-5A

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 %	0.400 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Phosphorus	P %	0.020 max.		
Lead	Pb %	6.000 - 8.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.250 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	2.300 - 3.500		
Zinc	Zn %	7.000 - 10.000		
Copper	Cu %	78.000 - 82.000	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	200 min.
			Yield Strength in Mpa	90 min.
			Elongation in %	18 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C84400	UNS	USA	Rod, Bar, Tube and Shapes
B271 C84400	ASTM	USA	Casting
B30 5A	ASTM	USA	Casting
B30 C84400	ASTM	USA	Casting
B505 C84400	ASTM	USA	Casting
SB-505 C84400	ASME	USA	Casting
SB-584 C84400	ASME	USA	Casting

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