



Material - ASTM B271 Leaded Semi-Red Brass UNS C84800

Standard Specification for Copper-Base Alloy Centrifugal Castings

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B271 Copper-Base Alloy Centrifugal 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 %	2.000 - 3.000	As-Cast	
Lead	Pb %	5.500 - 7.000		
Zinc	Zn %	13.000 - 17.000		
Iron	Fe %	0.400 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.005 max.		
Antimony	Sb %	0.250 max.		
Sulphur	S %	0.080 max.		
Phosphorus	P %	0.020 max.		
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
B271 C84800	ASTM	USA	Casting
B30 C84800	ASTM	USA	Ingot and Casting
B505 C84800	ASTM	USA	Casting
B584 C84800	ASTM	USA	Casting
SB-505 C84800	ASME	USA	Casting
SB-584 C84800	ASME	USA	Casting
B145-5B	ASTM	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.