

Material: ASTM B271 Silicon Bronze UNS C87300

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	
Lead	Pb %	0.200 max.	As-Cast	
Zinc	Zn %	0.250 max.		
Iron	Fe %	0.200 max.		
Manganese	Mn %	0.800 - 1.500		
Silicon	Si %	3.5000 - 5.000		
Copper	Cu %	94.000 min.		
-	-	-	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	
			310 min.	
			Yield Strength in Mpa	
			124 min.	
			Elongation in %	
			20 min.	
			Reduction of Area in %	
			-	
			Hardness in BHN	
			-	
			Impact in Joule	
			-	

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B198-12A	ASTM	USA	Casting
B271 C87300	ASTM	USA	Casting
B30 C87300	ASTM	USA	Ingot and Casting
B584 C87300	ASTM	USA	Casting
SB-584 C87300	ASME	USA	Casting
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