

# 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		
Lead	Pb %	0.200 max.
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.
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

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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