

# Material: ASTM B271 Leaded Yellow Brass UNS C85700

## 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		
Tin	Sn %	0.500 - 1.500
Lead	Pb %	0.800 - 1.500
Zinc	Zn %	32.000 - 40.000
Iron	Fe %	0.700 max.
Ni + Co	Ni% + Co%	1.000 max.
Aluminium	Al %	0.550 max.
Silicon	Si %	0.050 max.
Copper	Cu %	58.000 - 64.000
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	276 min.
Yield Strength in Mpa	97 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B176 C85700	ASTM	USA	Casting
B271 C85700	ASTM	USA	Casting
B30 C85700	ASTM	USA	Casting
B505 C85700	ASTM	USA	Casting
B584 C85700	ASTM	USA	Casting
SB-584 C85700	ASME	USA	Casting
CACIn203	KS	Korea	Ingot and Casting

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India