



## Material - ASTM B176 C85700

### Standard Specification for Copper Alloy Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B176 Copper Alloy Casting

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.800 max.	As-Cast	
Iron	Fe %	0.700 max.		
Nickel	Ni %	1.000 max.		
Lead	Pb %	0.800 - 1.500		
Silicon	Si %	0.050 max.		
Tin	Sn %	0.500 - 1.500		
Zinc	Zn %	32.000 - 40.000		
Copper	Cu %	58.000 - 64.000		
-	-	-		
-	-	-	<b>Mechanical Properties</b>	
-	-	-	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
C85700	UNS	USA	Rod, Bar, Tube and Shapes
B271 C85700	ASTM	USA	Casting
B30 C85700	ASTM	USA	Ingot and Casting
B505 C85700	ASTM	USA	Casting
B584 C85700	ASTM	USA	Casting
SB-584 C85700	ASME	USA	Casting
CACIn203	KS	Korea	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](mailto:marketing@gravitycastindia.com)**

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