

# Material: ASME SB-584 C90500

## Standard Specification for Copper Alloy Sand Casting for General Applications

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASME SB-584 Copper Alloy Sand Casting for General Applications

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.005 max.	As-Cast	
Iron	Fe %	0.200 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Phosphorus	P %	0.050 max.		
Lead	Pb %	0.300 max.		
Sulphur	S %	0.050 max.		
Antimony	Sb %	0.200 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	9.000 - 11.000		
Zinc	Zn %	1.000 - 3.000		
Copper	Cu %	86.000 - 89.000	<b>Mechanical Properties</b>	
-	-	-	Tensile Strength in Mpa	276 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
C90500	UNS	USA	Rod, Bar, Tube and Shapes
B30 C90500	ASTM	USA	Ingot and Casting
B271 C90500	ASTM	USA	Casting
SB-505 C90500	ASME	USA	Casting
CA905	SAE	USA	Casting
SAE62	SAE	USA	Casting
4845	SAE	USA	Casting

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