

# Material: ASME SB-505 C96400

## Standard Specification for Copper Alloy Continuous Casting

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASME SB-505 Copper Alloy Continuous Casting

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

**Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.150 max.
Iron	Fe %	0.250 - 1.500
Manganese	Mn %	1.500 max.
Niobium	Nb %	0.500 - 1.500
Ni + Co	Ni% + Co%	28.000 - 32.000
Phosphorus	P %	0.020 max.
Lead	Pb %	0.010 max.
Sulphur	S %	0.020 max.
Silicon	Si %	0.500 max.
Copper	Cu %	65.000 - 69.000
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	448 min.
Yield Strength in Mpa	241 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C96400	UNS	USA	Rod, Bar, Tube and Shapes
B30 C96400	ASTM	USA	Ingot and Casting
B369 C96400	ASTM	USA	Casting
B505 C96400	ASTM	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-

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