

# Material: ASTM B505 Special Alloy UNS C99500

## Standard Specification for Copper Alloy Continuous Castings

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASTM B505 / 505M Copper Alloys for Continuous 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 %	0.250 max.
Zinc	Zn %	0.500 - 2.000
Ni + Cu	Ni% + Cu%	3.500 - 5.500
Iron	Fe %	3.000 - 5.000
Manganese	Mn %	0.500 max.
Aluminium	Al %	0.500 - 2.000
Copper	Cu %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	483 min.
Yield Strength in Mpa	276 min.
Elongation in %	12 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B30 C99500	ASTM	USA	Ingot and Casting
B505 C99500	ASTM	USA	Casting
B763 C 99500	ASTM	USA	Casting
SB-505 C99500	ASME	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-

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