



Material - ASTM B505 Nickel-Phosphor Bronze UNS C92500

Standard Specification for Copper Alloy Continuous Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B505 / 505M Copper Alloys for Continuous Casting

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

Grade Belongs to the Industry - Rod, Bar, Tube and Shapes

Chemical Composition			Heat Treatment	
Tin	Sn %	10.000 - 12.000	As-Cast	
Lead	Pb %	1.000 - 1.500		
Zinc	Zn %	0.500 max.		
Ni + Cu	Ni% + Cu%	0.800 - 1.500		
Iron	Fe %	0.300 max.		
Antimony	Sb %	0.250 max.		
Sulphur	S %	0.050 max.		
Phosphorus	P %	1.500 max.		
Aluminium	Al %	0.005 max.		
Silicon	Si %	0.005 max.		
Copper	Cu %	85.000 - 88.000	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	276 min.
-	-	-	Yield Strength in Mpa	165 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B30 C92500	ASTM	USA	Ingot and Casting
B505 C92500	ASTM	USA	Casting
SB-505 C92500	ASME	USA	Casting
CA925	SAE	USA	Casting
SAE 640	SAE	USA	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

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