

Material - ASTM B505 Nickel-Tin Bronze UNS C94700

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 %	4.500 - 6.000	As-Cast or Solution Annealing	
Lead	Pb %	0.100 max.		
Zinc	Zn %	1.000 - 2.500		
Ni + Cu	Ni% + Cu%	4.500 - 6.000		
Iron	Fe %	0.250 max.		
Antimony	Sb %	0.150 max.		
Sulphur	S %	0.050 max.		
Phosphorus	P %	0.050 max.		
Aluminium	Al %	0.005 max.	Mechanical Properties	
Manganese	Mn %	0.200 max.	Tensile Strength in Mpa	310 min.
Silicon	Si %	0.005 max.	Yield Strength in Mpa	138 min.
Copper	Cu %	85.000 - 90.000	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
B292-A	ASTM	USA	Casting
B30 C94700	ASTM	USA	Ingot and Casting
B505 C94700	ASTM	USA	Casting
B584 C94700	ASTM	USA	Casting
SB-505 C94700	ASME	USA	Casting
C94700	SAE	USA	Casting
CA947	SAE	USA	Casting

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.com

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