

Material - ASTM B144-3E

Standard Specification for Copper Alloy Sand Casting for General Applications

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B144 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 %	0.150 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Phosphorus	P %	0.050 max.		
Lead	Pb %	23.000 - 27.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.800 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	4.700 - 6.000	Mechanical Properties	
Zinc	Zn %	0.800 max.	Tensile Strength in Mpa	165 min.
Copper	Cu %	67.000 - 72.000	Yield Strength in Mpa	-
-	-	-	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
C94300	UNS	USA	Rod, Bar, Tube and Shapes
B30 C94300	ASTM	USA	Ingot and Casting
B505 C94300	ASTM	USA	Casting
C94300	SAE	USA	Casting
CA943	SAE	USA	Casting
SB-505 C94300	ASME	USA	Casting
SB-584 C94300	ASME	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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