

Material: ASME SB-584 C94300

Standard Specification for Copper Alloy Sand Casting for General Applications

Group: Non-Ferrous Copper Alloy

Sub Group: ASME SB-584 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	
Boron	B %	0.001 max.		
Iron	Fe %	0.150 max.		
Magnesium	Mg %	0.005 - 0.150		
Niobium	Nb %	0.100 - 0.300		
Ni + Cu	Ni % + Cu %	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.	Mechanical Properties	
Tin	Sn %	4.500 - 6.000	Tensile Strength in Mpa	165 min.
Tin	Sn %	0.010 max.	Yield Strength in Mpa	-
Zinc	Zn %	0.800 max.	Elongation in %	10 min.
Copper	Cu %	67.000 - 72.000	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
B144-3E	ASTM	USA	Casting
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

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Customer Care: +91-99090 45075 Email: info@icastllp.com