

## 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																
Zinc	Zn %	0.800 max.																
Copper	Cu %	67.000 - 72.000	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>165 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>-</td> </tr> <tr> <td>Elongation in %</td> <td>10 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	165 min.	Yield Strength in Mpa	-	Elongation in %	10 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	-
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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

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