



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - ASME SB-505 C94100

### Standard Specification for Copper Alloy Continuous Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASME SB-505 Copper Alloy Continuous Casting

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 %	0.250 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Phosphorus	P %	1.500 max.		
Lead	Pb %	18.000 - 22.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.800 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	4.500 - 6.500		
Zinc	Zn %	1.000 max.		
Copper	Cu %	72.000 - 79.000	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	172 min.
-	-	-	Yield Strength in Mpa	117 min.
-	-	-	Elongation in %	7 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C94100	UNS	USA	Rod, Bar, Tube and Shapes
B30 C94100	ASTM	USA	Ingot and Casting
B505 C94100	ASTM	USA	Casting
941C	AS	Australia	Casting
C94100	AS	Australia	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](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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