GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J 462 UNS C94700 Grade A

Standard Specification for Cast Copper Alloys

Group - Non-Ferrous Copper Alloys

Sub Group - SAE J 462 UNS C94700 Grade A Cast Copper Alloys

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Casting

Chemical Composition		
Tin	Sn %	4.500 - 6.000
Lead	Pb %	0.100 max.
Zinc	Zn %	1.000 - 2.500
Iron	Fe %	0.250 max.
Antimony	Sb %	0.150 max.
Nickel	Ni %	4.500 - 6.000
Manganese	Mn %	0.200 max.
Sulphur	S %	0.050 max.
Phosphorus	P %	0.050 max.
Aluminium	Al %	0.005 max.
Silicon	Si %	0.005 max.
Copper	Cu %	85.000 - 90.000
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	310 min.
Yield Strength in Mpa	140 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in HBW	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
C94700	UNS	USA	Casting
B 30 UNS C94700	ASTM	USA	Ingots and Casting
B 505 UNS C94700	ASTM	USA	Casting
B 584 UNS C94700	ASTM	USA	Casting
B 763 UNS C94700	ASTM	USA	Casting
SB-505 UNS C94700	ASME	USA	Casting
J 462 UNS C94700 Grade B	SAE	USA	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

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.