



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

## Material - SAE J462 C83600

### Standard Specification for Cast Copper Alloys

Group - Non-Ferrous Copper Alloy

Sub Group - SAE J462 Cast Copper Alloys

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 %	0.300 max.		
Ni + Cu	Ni% + Cu%	1.000 max.		
Phosphorus	P %	0.050 max.		
Lead	Pb %	4.000 - 6.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.250 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	4.000 - 6.000		
Zinc	Zn %	4.000 - 6.000		
Copper	Cu %	84.000 - 86.000	<b>Mechanical Properties</b> Tensile Strength in Mpa      205 - 345 Yield Strength in Mpa      95 - 170 Elongation in %      12 - 20 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
C83600	UNS	USA	Rod, Bar, Tube and Shapes
B271 C83600	ASTM	USA	Casting
B505 C83600	ASTM	USA	Casting
B584 C83600	ASTM	USA	Casting
B30 C83600	ASTM	USA	Casting
B62 C83600	ASTM	USA	Casting
4855	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](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.

**ONE STOP SOLUTION FOR METAL PARTS**