GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J 463 UNS C63000

Standard Specification for Wrough Copper and Copper Alloys

Group - Non-Ferrous Copper Alloys

Sub Group - SAE J 463 UNS C63000 Wrough Copper and Copper Alloys

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

Grade Belongs to the Industry - Sheet, Strip, Bar, Plate, Rod, Wire, Tube and Shapes

Chemical Composition		
Iron	Fe %	2.000 - 4.000
Zinc	Zn %	0.300 max.
Tin	Sn %	0.200 max.
Manganese	Mn %	1.500 max.
Nickel	Ni %	4.000 - 5.500
Aluminium	Al %	9.000 - 11.000
Silicon	Si %	0.250 max.
Copper	Cu %	78.000 - 85.000
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Hardening

Mechanical Properties	
Tensile Strength in Mpa	690 min.
Yield Strength in Mpa	345 min.
Elongation in %	5 min.
Reduction of Area in %	-
Hardness in HRB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
C63000	UNS	USA	Sheet, Strip, Bar, Plate, Rod, Wire, Tube and Shapes
B 124 UNS C63000	ASTM	USA	Rod, Bar and Shapes
B 283 UNS C63000	ASTM	USA	Forging
B 150 UNS C63000	ASTM	USA	Rod, Bar and Shapes
B 171 UNS C63000	ASTM	USA	Plate and Sheet
SB-171 UNS C63000	ASME	USA	Plate and Sheet
SB-283 UNS C63000	ASME	USA	Forging

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.