



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ISO 1637 CuAl10Ni5Fe4

Standard Specification for Wrought Copper and Copper Alloy Rod and Bar

Group - Non-Ferrous Copper Alloy

Sub Group - ISO 1637 Wrought Copper and Copper Alloy Rod and Bar

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

Grade Belongs to the Industry - Rod and Bar

Chemical Composition			Heat Treatment	
Aluminium	Al %	9.000 - 11.000	As Drawn or Stress Relieving or Hot Rolled	
Iron	Fe %	2.000 - 4.000		
Manganese	Mn %	1.500 max.		
Ni + Co	Ni% + Co%	4.000 - 5.500		
Silicon	Si %	0.250 max.		
Tin	Sn %	0.200 max.		
Zinc	Zn %	0.300 max.		
Cu + Ag	Cu% + Ag%	78.000 - 85.000		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	620 - 725
-	-	-	Yield Strength in Mpa	310 - 415
-	-	-	Elongation in %	12 - 17
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRB	100 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C63000	UNS	USA	Rod, Bar, Tube and Shapes
B124 C63000	ASTM	USA	Rod, Bar and Shape
B171 C63000	ASTM	USA	Plate and Sheet
B283 C63000	ASTM	USA	Forging
SB-150 C63000	ASME	USA	Rod, Bar and Shape
SB-171 C63000	ASME	USA	Plate and Sheet
CA630	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.

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