



Material - UNS C63000

Standard Specification for Copper and Copper Alloy Forging Rod, Bar and Shapes

Group - Non-Ferrous Copper Alloy

Sub Group - UNS Copper and Copper Alloy Forging Rod, Bar and Shapes

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

Grade Belongs to the Industry - Rod, Bar and Shape

Chemical Composition			Heat Treatment	
Aluminium	Al %	9.000 - 11.000	Normalizing or Annealing or Tempering	
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.		
Copper	Cu %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	655 min.
-	-	-	Yield Strength in Mpa	330 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRB	90 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B124 C63000	ASTM	USA	Rod, Bar and Shapes
B150 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
SB-283 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

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