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		
Aluminium	Al %	9.000 - 11.000
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Tempering

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

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