



Material - SAE J463 CA675

Standard Specification for Wrought Copper and Copper Alloys

Group - Non-Ferrous Copper Alloy

Sub Group - SAE J463 Wrought Copper and Copper Alloys

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 %	0.250 max.	Normalizing or Annealing or Tempering	
Iron	Fe %	0.800 - 2.000		
Manganese	Mn %	0.050 - 0.500		
Lead	Pb %	0.200 max.		
Tin	Sn %	0.500 - 1.500		
Copper	Cu %	57.000 - 60.000		
Zinc	Zn %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	450 - 590
-	-	-	Yield Strength in Mpa	205 - 415
-	-	-	Elongation in %	10 - 33
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRB	65 - 90
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B124 C67500	ASTM	USA	Rod, Bar and Shapes
B138 C67500	ASTM	USA	Rod, Bar and Shape
B283 C67500	ASTM	USA	Forging
F467 C67500	ASTM	USA	Nut
SB-283 C67500	ASME	USA	Forging
SF-467 C67500	ASME	USA	Nut
SF-468 C67500	ASME	USA	Bolts, Hex Cap Screws and Studs

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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