

# Material: SAE J462 CA630

## 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:** Casting

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.
Cu + Ag	Cu% + Ag%	78.000 - 85.000
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Drawn or Stress Relieving or Hot Rolled

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
CuAl10Ni5Fe4	ISO	International	Rod and Bar

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