

Material: SAE J463 CA623

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 %	8.500 - 11.000
Manganese	Mn %	0.500 max.
Ni + Co	Ni% + Co%	1.000 max.
Silicon	Si %	0.250 max.
Tin	Sn %	0.600 max.
Cu + Ag	Cu% + Ag%	82.200 - 89.500
-	-	-
-	-	-
-	-	-
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-	-	-
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-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Drawn or Stress Relieving or Hot Rolled

Mechanical Properties	
Tensile Strength in Mpa	565 - 655
Yield Strength in Mpa	215 - 415
Elongation in %	15 - 30
Reduction of Area in %	-
Hardness in HRB	140 - 180
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C62300	UNS	USA	Rod, Bar, Tube and Shapes
B124 C62300	ASTM	USA	Rod, Bar and Shapes
B150 C62300	ASTM	USA	Rod, Bar and Shapes
SB-150 C62300	ASME	USA	Rod, Bar and Shapes
SB-283 C62300	ASME	USA	Forging
4635	SAE	USA	Bars, Rods and Forgings
87Cu-9Al-3Fe	SAE	USA	Bars, Rods and Forgings

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