

## 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			Heat Treatment	
Aluminium	Al %	8.500 - 11.000	As Drawn or Stress Relieving or Hot Rolled	
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		
-	-	-	<b>Mechanical Properties</b> 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 -	
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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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