

Material: SAE J462 CA863

Standard Specification for Cast Copper Alloys

Group: Non-Ferrous Copper Alloy

Sub Group: SAE J462 Cast 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 %	5.000 - 7.500	As-Cast	
Iron	Fe %	2.000 - 4.000		
Manganese	Mn %	2.500 - 5.000		
Nickel	Ni %	1.000 max.		
Lead	Pb %	0.200 max.		
Tin	Sn %	0.200 max.		
Other	Ot%	0.300 max.		
Copper	Cu %	60.000 - 66.000		
Zinc	Zn %	Balance	Mechanical Properties Tensile Strength in Mpa 758 - 760 Yield Strength in Mpa 414 - 425 Elongation in % 22251 Reduction of Area in % - Hardness in HB 217 - 269 Impact in Joule -	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C86300	UNS	USA	Rod, Bar, Tube and Shapes
B271 C86300	ASTM	USA	Casting
B30 C86300	ASTM	USA	Ingot and Casting
SAE 430B	SAE	USA	Casting
SB-505 C86300	ASME	USA	Casting
SB-584 C86300	ASME	USA	Casting
C86300	AS	Australia	Casting

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