

# Material: SAE J462 CA922

## 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 %	0.005 max.	As-Cast															
Iron	Fe %	0.300 max.																
Nickel	Ni %	1.000 max.																
Phosphorus	P %	0.050 max.																
Lead	Pb %	1.000 - 2.000																
Silicon	Si %	0.005 max.																
Tin	Sn %	5.500 - 6.500																
Zinc	Zn %	3.000 - 5.000																
Other	Ot%	0.300 max.																
Copper	Cu %	86.000 - 90.000																
-	-	-	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>234 - 262</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>110 - 131</td> </tr> <tr> <td>Elongation in %</td> <td>18 - 22</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	234 - 262	Yield Strength in Mpa	110 - 131	Elongation in %	18 - 22	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C92200	UNS	USA	Rod, Bar, Tube and Shapes
B30 C92200	ASTM	USA	Ingot and Casting
B61 C92200	ASTM	USA	Casting
SB-61 C92200	ASME	USA	Casting
SB-505 C922000	ASME	USA	Casting
SAE 922	SAE	USA	Casting
CACIn407	KS	Korea	Ingot and Casting

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