

## Material: AS/NZS 1565 C93200

### Standard Specification for Copper and Copper Alloys - Ingot and Casting

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** AS/NZS 1565 Copper and Copper Alloys - Ingot and Casting

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Ingot and Casting

Chemical Composition			Heat Treatment															
Aluminium	Al %	0.005 max.	As-Cast															
Iron	Fe %	0.200 max.																
Ni + Co	Ni% + Co%	1.000 max.																
Phosphorus	P %	0.150 max.																
Lead	Pb %	6.000 - 8.000																
Sulphur	S %	0.080 max.																
Antimony	Sb %	0.350 max.																
Silicon	Si %	0.005 max.																
Tin	Sn %	6.500 - 7.500																
Zinc	Zn %	1.500 - 4.000																
Copper	Cu %	81.000 - 85.000	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>210 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>100 min.</td> </tr> <tr> <td>Elongation in %</td> <td>12 min.</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	210 min.	Yield Strength in Mpa	100 min.	Elongation in %	12 min.	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
C93200	UNS	USA	Rod, Bar, Tube and Shapes
B30 C93200	ASTM	USA	Ingot and Casting
SB-505 C93200	ASME	USA	Casting
SB-584 C93200	ASME	USA	Casting
C93200	SAE	USA	Casting
CA932	SAE	USA	Casting
SAE 660	SAE	USA	Casting

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**Customer Care:** +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)