

Material: ASTM B505 High-Leaded Tin Bronze UNS C93700

Standard Specification for Copper Alloy Continuous Casting

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B505 / 505M Copper Alloys for Continuous Casting

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

Belongs to the Industry: Rod, Bar, Tube and Shapes

Chemical Composition			Heat Treatment															
Tin	Sn %	9.000 - 11.000	As Cast or Solution Annealing and Precipitation															
Lead	Pb %	8.000 - 11.000																
Zinc	Zn %	0.800 max.																
Ni + Cu	Ni% + Cu%	0.500 max.																
Iron	Fe %	0.700 max.																
Antimony	Sb %	0.500 max.																
Sulphur	S %	0.080 max.																
Phosphorus	P %	1.500 max.																
Aluminium	Al %	0.005 max.																
Silicon	Si %	0.005 max.																
Copper	Cu %	78.000 - 82.000	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>241 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>138 min.</td> </tr> <tr> <td>Elongation in %</td> <td>6 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	241 min.	Yield Strength in Mpa	138 min.	Elongation in %	6 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
B22 C93700	ASTM	USA	Casting
B30 C93700	ASTM	USA	Ingot and Casting
SB-505 C93700	ASME	USA	Casting
SB-584 C93700	ASME	USA	Casting
C93700	SAE	USA	Casting
CA937	SAE	USA	Casting
C93700	AS	Australia	Ingot and Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com