

Material - ASTM B66 C93800

Standard Specification for Gear Bronze Alloy Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B66 Gear Bronze Alloy Casting

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 %	0.150 max.		
Ni + Co	Ni% + Co%	1.000 max.		
Phosphorus	P %	0.050 max.		
Lead	Pb %	13.000 - 16.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.800 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	6.300 - 7.500	Mechanical Properties	
Zinc	Zn %	0.800 max.	Tensile Strength in Mpa	179 min.
Copper	Cu %	75.000 - 79.000	Yield Strength in Mpa	97 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C93800	UNS	USA	Rod, Bar, Tube and Shapes
B30 C93800	ASTM	USA	Ingot and Casting
SB-505 C93800	ASME	USA	Casting
SB-584 C93800	ASME	USA	Casting
C93800	SAE	USA	Casting
CA938	SAE	USA	Casting
CACIn604	KS	Korea	Ingot and Casting

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.