

Material - ASTM B427 C90700

Standard Specification for Gear Bronze Alloy Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B427 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%	0.500 max.		
Phosphorus	P %	0.300 max.		
Lead	Pb %	0.500 max.		
Sulphur	S %	0.050 max.		
Antimony	Sb %	0.200 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	10.000 - 12.000	Mechanical Properties	
Zinc	Zn %	0.500 max.	Tensile Strength in Mpa	241 - 345
Copper	Cu %	88.000 - 90.000	Yield Strength in Mpa	117 - 193
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	65 - 95
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C90700	UNS	USA	Rod, Bar, Tube and Shapes
B30 C90700	ASTM	USA	Ingot and Casting
B505 C90700	ASTM	USA	Casting
SB-505 C90700	ASME	USA	Casting
CA907	SAE	USA	Casting
SAE 65	SAE	USA	Casting
CACIn502	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.