

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		
Zinc	Zn %	0.500 max.		
Copper	Cu %	88.000 - 90.000	Mechanical Properties Tensile Strength in Mpa 241 - 345 Yield Strength in Mpa 117 - 193 Elongation in % 10 min. Reduction of Area in % - Hardness in HB 65 - 95 Impact in Joule -	
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-	-	-		
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-	-	-		
-	-	-		
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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

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