

Material: ASTM B427 C92900

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 %	0.200 max.		
Ni + Co	Ni% + Co%	2.800 - 4.000		
Phosphorus	P %	0.500 max.		
Lead	Pb %	2.000 - 3.200		
Sulphur	S %	0.050 max.		
Antimony	Sb %	0.250 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	9.00 - 11.000		
Zinc	Zn %	0.250 max.		
Copper	Cu %	82.000 - 86.000	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	310 min.
-	-	-	Yield Strength in Mpa	172 min.
-	-	-	Elongation in %	8 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	75 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C92900	UNS	USA	Rod, Bar, Tube and Shapes
B30 C92900	ASTM	USA	Ingot and Casting
B505 C92900	ASTM	USA	Casting
SB-505 C92900	ASME	USA	Casting
C92900	SAE	USA	Casting
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