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Babbitt Bearing Alloys

Alloy	Liquid F	Solid F	Paste F	Tensile Lbs/Cu inch	Shear Lbs/Cu inch	Density	Suggested uses and Technologies
89% Tin 7.5% Antimony 3.5% Copper	669	466	203	6100	14900	0.267	High speed, high temperature bearings. High load capability and excellent wear resistance (SAE#12)
85% Tin 10% Antimony 5% Copper	572	550	22	6600	14900	0.269	Very high speed bearings supporting heavy reciprocating loads (Prize Ribbon)
55% Tin, 35% Lead, 10% Antimony	464	480	29	3600	2600	0.302	A medium duty alloy for larger bearings where alloy segregation is unacceptable
10% Tin 75% Lead 15% Antimony	514	464	50	3550	2650	0.331	Suitable for bearings that will run at moderate speeds/ loads. (Benson and SAE #14)
6% Tin 84% Lead 10% Antimony	548	470	78	4500	2600	0.326	Corrosion resistant alloy for harder journal bearings (SAE13)
3% Tin 85% Lead 12% Antimony	670	459	0	10500	13200	0.378	Eutectic alloy with highest tensile strength, minimum shrinkage, fastest solidification

Babbitt supplied as notch bars or ingots. Other shapes or weights can be made to order.