

## C89520

<b>Composition</b>				
		<b>Bismuth Brass Sipi CDA 89833</b>		
Chemical Element		Min	Nominal	Max
Cu	%	87.00	89.00	91.00
Sn	%	4.00	5.00	6.00
Pb	%			0.10
Zn	%	2.00	3.00	4.00
Fe	%			0.30
Sb	%			0.25
Ni(+Co)	%			1.00
S	%			0.08
Pb	%			0.05
Al	%			0.005
Si	%			0.005
Bi	%	1.70	2.20	2.70

<b>Physical Properties</b>	
Meting Point - Liquidus	1885 °F
Melting Point - Solidus	1580 °F
Density	0.317 lb/in <sup>3</sup> @ 68 °F
Specific Gravity	8.78
Electrical Conductivity	18% IACS @ 68 °F
Thermal Conductivity	41.0 BTU . Ft/hr @ 68 °F
Coeff of Expansion	13.0 x 10 <sup>-6</sup> per °F
Specific Heat	0.085 BTU/lb/oF @ 68 °F
Tensile strength	40 ksi
Yield strength	18 ksi
Elongation	18%
Hardness, Brinell	65 @500 kg load