

C89833

Alloy used for potable water systems, pumps, impellers, corrosion resistant applications

Composition				
		Bismuth Brass Sipi CDA 89833		
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

Physical Properties	
Meting Point - Liquidus	1885 °F
Melting Point - Solidus	1580 °F
Density	0.317 lb/in ³ @ 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 ⁻⁶ 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

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