

LEADED PHOSPHOR BRONZE

CDA 544

ALLOY

PHOSPHOR BRONZE B-2

The most widely-used copper based alloy for almost every type of spring, because of its high strength, resilience, excellent corrosion and fatigue resistance. Combined with good conductivity, these alloys are used for all types of electrical devices - switches, relays, instruments, etc. Free-cutting phosphor bronze – copper alloy UNS C54400 has good cold working properties. Tin provides resistance to corrosion and strength to the alloy where as phosphorus improves the wear resistance and stiffness of the alloy. Phosphor bronzes are used for electrical products owing to their excellent formability and solderability.

Chemical Properties

Cu	Sn	Zn	Pb
87.5	5	5	2.5

Mechanical Properties

Tensile strength	Elongation
Min Mpa	Min %
380-415	12-15.

Physical Properties

Density	Mean Coefficient of Thermal	Thermal Conductivity	Specific Heat
(Kg/m ³)	Expansion(µm/m/°C)	(W/m.K)	0-100°C
8.89	17.3	86.5	377

Equivalent Designation

UNS C54400
 Din CuSn4Pb4Zn4
 CW456K
 SAE J461
 SAE J463
 ASTM B139
 PHOSPHOR BRONZE B-2

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