

Phosphor Bronze (CuSn5)

Sheets



Material Designation		Chemical Composition (%)		Applications
UNS	C51000	Sn	4.5 - 5.5	Contact Springs / Relay springs Connectors Diaphragms Stamped Parts Lock Washers
JIS	C5102	P	0.02 - 0.35	
INDIAN	CuSn5	Zn	≤ 0.3	
EN	CuSn5	Cu	Remaining	
BS	PB-102			

Specification		Properties	
Thickness	0.08 - 3 mm	Cold Workability	Excellent
Width	6 - 600 mm	Electroplating Capacity	Excellent
Length	600 - 6000 mm	Soft Soldering	Excellent
Temper	O , 1/4H , 1/2H , 3/4H , H , EH , SH	Welding Ability	Good

Description
<p>Phosphor bronze is an alloy of copper with 4.5–5.5% of tin and 0.02-0.35% phosphorus. The addition of tin increases the corrosion resistance and strength of the alloy. The phosphorous increases the wear resistance and stiffness of the alloy. This provides an excellent combination of strength, excellent formability and hardness. This grade alloy is largely insensitive to stress corrosion cracking.</p>

Value Proposition
<ul style="list-style-type: none"> ● Competitive Pricing ● Flexible LME price fixation ● Product Customization ● Quality Assurance ● Committed to deliveries ● Standard export pallet packing

This data is general technical specification; Binding technical specifications will be as per agreement.