

BS1400: PB1 / CC481Kis the standard grade of continually cast phosphor bronze or tin bronze used within Europe.Essentially a 10-12% tin containing copper alloy it has a small phosphorus content added to increase fluidity and de -oxidise the material during casting. The high tin content of the PB1 / CC481K imparts a very good corrosion resistance in marine environments and brine, while also improving the strength and wear resistance. It also offers a good resistance to shock loading although the wrought grades can out - perform the PB1 in this area. PB1 / CC481K can be soldered and brazed and has traditionally been utilised in the manufacture of pump and valve s, gears, worm wheels, bushes and bearings for medium to heavy loading at high speed

## **Chemical Properties**

Cu	Sn	Zn	Pb	Р
88.75	10.5	0.05	0.25	0.75

## **Mechanical Properties**

Yeild strength	Tensile strength	Elongation	Hardness
Min 0.2% Mpa	Min Mpa	Min %	HRB
170	360-500	6.0-25	100-150

## **Equivalent Designation**

UNS C90700 BS 1400 PB1 Din CuSn10 EN CuSn11P/CC481K CC481K C907

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