

Bronze

Phosphorus Bronze



Phosphorus bronze (sometimes sold with the shorter name Phosphor Bronze) is an alloy of copper with 3.5 to 10% of tin and a significant phosphorus content of up to 1%. ♦ The phosphorus is added as deoxidizing agent during melting.

Phosphorus Bronze is well known for their toughness, strength, low coefficient of friction, and fine grain. The phosphorus also improves the fluidity of the molten metal and thereby improves the castability, and improves mechanical properties by cleaning up the grain boundaries.

Mfgr Process : Centrifugal Casting, Continuous Casting

Available Forms  :  Round Bar, Hex Bar, Square Bar, Rectangles Bar, Pipes, Hollow Bar, Hex Hollow Bar,

Related Specifications & Applications for Phosphor Bronze Alloys					
Alloy Description	American Spec.	American Spec.	German Spec.	British Spec.	Typical Material Applications
	UNS	SAE	alloy	alloy	
Phosphor Bronze Grade I	C54400		CuSn4	PB101	Phosphor bronze is used for springs, bolts and various other items used in situations where resistance to fatigue, wear and chemical corrosion are required (e.g., a ship's propellers in a marine environment). The alloy is also used in some dental bridges.
					The combination of good physical properties, fair electrical conductivity and moderate cost make Phosphor Bronze round, square, flat and special shaped wire desirable for many springs and electrical contacts and a wide variety of wire forms

Tin Bronze



Being a customer centric organization, we provide a wide variety of high quality Tin Bronze products. These products are available in various lengths, width and thickness ranges to suit the specific requirements of various customers. In order to ensure quality we produced our range in accordance with set international norms of quality. Tin bronze alloys are known for their corrosion resistance, high wear resistance and low friction coefficient against steel.

Our range is available in below mentioned specifications and chemical composition for specific requirements.

Mfg Process Centrifugal Casting, Continuous Casting

Available Forms Round Bar, Hex Bar, Square Bar, Rectangles Bar, Pipes, Hollow Bar, Hex Hollow Bar, Square & Rectangle Hollow Bar, Bushings, Rings (As per requirement) Etc.

Related Specifications & Applications for Common Casting Copper Alloys					
Alloy Description	American Spec.	American Spec.	German Spec.	British Spec.	Typical Material Applications
	UNS	SAE	alloy	alloy	
Cu88 Sn8 Zn4 Tin Bronze	C90300 (CDA 903)	620	-	-	Bearings, bushings, piston rings, valve components, seal rings, steam fittings and gears.
Cu88 Sn10 Zn2 Tin Bronze	C90500 (CDA 905)	62	CuSn10Zn	*G1	Marine pumps, valves, bearings, bushings, piston rings, steam fittings and gears.
Cu89 Sn11 Tin Bronze	C90700 (CDA 907)	65	CuSn12	*PB1	Heavy duty gears, high load bearings, bushings and worm wheels.
Cu88 Sn6 Zn4 Pb2 Leaded Tin Bronze	C92200 (CDA 922)	622	-	LG3	Valves, fittings, Medium-pressure hydraulic and steam pressure parts for use up to 550 F (287 C)
Cu87 Sn11 Ni2 Leaded Tin Bronze	C92500 (CDA 925)	640	CuSn12Ni	CT2	Gears, worm wheels - Good shock resistance, Automotive synchronizer rings.
Cu87 Sn11 Pb2 Leaded Tin Bronze	C92700 (CDA 927)	63	CuSn12Pb	LB3	Heavy duty bearings, bushings, piston rings, valve components, steam fittings, gears.
Cu83 Sn7 Zn3 Pb7 Leaded Tin Bronze	C93200 (CDA 932)	660	CuSn7ZnPb		General utility bearings, bushings and wear plates for medium speeds and pressures.

Bronze Bearings



Our company specializes in offering qualitative range of Bronze Bearing. These products are widely used for the heavy-duty trailer, truck as well as construction vehicle industries.

Some features of its are: ♦

- ♦ Quality material used
- ♦ Conventional design
- ♦ Sturdy
- ♦ Durable

Various Available Grades *Bronze Bearings*.

BS 1400 (LG1, LG2, LG4, LG3, PB1, PB2, PB3, PB4, LPB1, LB1, LB2, LB3, LB4, AB1, AB2, HTB3, HTB1)

UNS (C62500, C83600, C84400, C86200, C86300, C87200, C90700, C93200, C93700, C93800, C95200, C95500)

BS EN (CC490K, CC491K, CC493K, CC480K, CC483K, CC482K, CC495K, CC496K, CC331G, CC333G, CC762S, CC764S)

High Leaded Tin bronze



Supported by a team of experts and well equipped manufacturing unit, we present wide range of High Leaded Tin Bronze, Tin bronze alloys, Tin bronze castings, Tin bronze rods etc. Tin bronze alloys are known for their corrosion resistance, high wear resistance and low friction coefficient against steel.

Our range is available in below mentioned specifications and chemical composition for specific requirements.

Mfgr Process : Centrifugal Casting, Continuous Casting

Available Forms : Round Bar, Hex Bar, Square Bar, Rectangles Bar, Pipes, Hollow Bar, Hex Hollow Bar,
Square & Rectangle Hollow Bar, Bushings, Rings (As per requirement) Etc.

Related Specifications & Applications for Common Casting Copper Alloys					
Alloy Description	American Spec.	American Spec.	German Spec.	British Spec.	Typical Material Applications
	UNS	SAE	alloy	alloy	
Cu85 Pb10 Sn5 High Leaded Tin Bronze	C93500 (CDA 935)	66	-	LB4	high speed bearings, bushings, high speed light loading and light pressure parts.
Cu80 Pb10 Sn10 High Leaded Tin Bronze	C93700 (CDA 937)	64	CuPb10Sn	LB2	Bearings for high speed and heavy pressures, pump parts, pressure tight castings.
Cu78 Pb15 Sn7 High Leaded Tin Bronze	C93800 (CDA 938)	67	CuPb15Sn	LB1	Turbocharger bearings, bearings for general service and moderate pressures, railroad applications.

Bronze Bushings



We are one of the known name in Quality **Bronze Bushings**. ♦ Bronze bushings are used in automotive applications, many types of motors, conveyors and a variety of industrial equipment.

Some features of its are: ♦

- ♦ Quality material used
- ♦ Conventional design
- ♦ Sturdy
- ♦ Durable

Mfgr Process ♦♦♦♦♦♦♦♦ : ♦♦♦♦♦♦♦♦♦♦ Centrifugal Casting, Continuous Casting

Various Available Grades *Bronze Bushings*.

- BS 1400 (LG1, LG2, LG4, LG3, PB1, PB2, PB3, PB4, LPB1, LB1, LB2, LB3, LB4, AB1, AB2, HTB3, HTB1)
- UNS (C62500, C83600, C84400, C86200,C86300, C87200, C90700, C93200, C93700, C93800, C95200, C95500)
- BS EN (CC490K, CC491K, CC493K, CC480K, CC483K, CC482K, CC495K, CC496K, CC331G, CC333G, CC762S, CC764S)

Aluminum Bronze

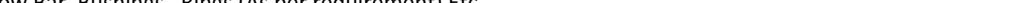


Aluminium bronze is a type of bronze in which aluminium is the main alloying metal added to copper. ♦ Aluminium bronzes of different chemical compositions are wide used in various industries, with most ranging from 5% to 11% aluminium by weight, the remaining mass being copper; other alloying agents such as iron, nickel, manganese, and silicon are also sometimes added to aluminium bronzes.

Aluminium bronzes are most valued for their higher strength and corrosion resistance as compared to other bronze alloys. These alloys are tarnish-resistant and show low rates of corrosion in atmospheric conditions, low oxidation rates at high temperatures, and low reactivity with sulfurous compounds and other exhaust products of combustion. They are also resistant to corrosion in sea water.

Mfgr Process : Centrifugal Casting, Continuous Casting

Available Forms : Round Bar, Hex Bar, Square Bar, Rectangles Bar, Pipes, Hollow Bar, Hex Hollow Bar,

 Square & Rectangle Hollow Bar, Bushings, Rings (As per requirement) Etc.

Related Specifications & Applications for Common Casting Copper Alloys					
Alloy Description	American Spec.	American Spec.	German Spec.	British Spec.	Typical Material Applications
	UNS	SAE	Alloy	alloy	
Aluminum Bronze	C95200	-	CuAl10Ni	AB1	High strength bearings, corrosion resistant parts, aircraft valve guides and seats.
Aluminum Bronze	C95400 (CDA 954)	-	CuAl10Fe	-	High strength bearings, bushings, gears, worms, wear plates, valve seats and guides.
Ni Aluminum Bronze	C95500 (CDA 955)	-	CuAl10Ni	AB2	Anti-fouling salt water corrosion resistant parts and general marine hardware.
🔩Aluminum Bronze	C95800 (CDA 958)	-	CuAl10Ni		Anti-fouling salt water corrosion resistant parts and general marine hardware.

Bronze Hollow Bar



We are one of the known name in Quality **Bronze Hollow Bars**. ♦ ♦ Bronze Hollow Bars are widely used in various industrial and Marine applications

Some features of its are: ♦

- ♦ Quality material used
- ♦ Conventional design
- ♦ Sturdy
- ♦ Durable

Various Available Grades *Bronze Hollow Bars*.

BS 1400 (LG1, LG2, LG4, LG3, PB1, PB2, PB3, PB4, LPB1, LB1, LB2, LB3, LB4, AB1, AB2, HTB3, HTB1)

UNS (C62500, C83600, C84400, C86200, C86300, C87200, C90700, C93200, C93700, C93800, C95200, C95500)

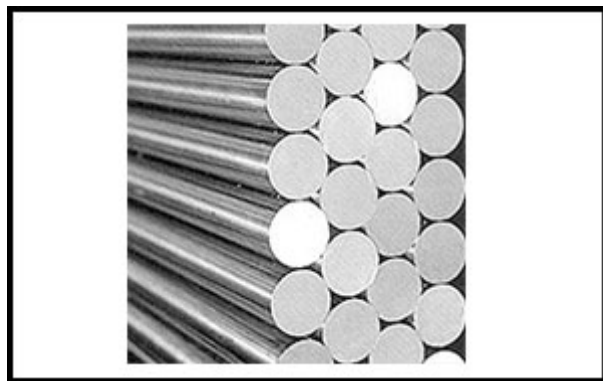
BS EN (CC490K, CC491K, CC493K, CC480K, CC483K, CC482K, CC495K, CC496K, CC331G, CC333G, CC762S, CC764S)

Bars and Rods

D.M.Metal Alloys is one of the prominent Exporter and Suppliers of Steel Bars & Rods which is available in multitude of length, width and dimensions. These Bars and Rods are in compliance with international quality standards and are widely used in various industry applications.

Features :

-  High durability
-  Corrosion proof
-  Outstanding functionality
-  Standard and customized dimensions



RANGE 1mm to 350mm Dia / A/F

FORMS Round Bar, Bright Bar, Export Bright Bar, Square Bar, Hex Bar, Wire Rods

<i>Stainless Steel Bars and Rods Grades</i>	ASTM A304, 304L, 304H, 309, 310, 310S, 316, 316Ti, 316 S33, 316L, 317, 317L, 321, 347, 347H, 409, 410, 410S, 420, 430
<i>Duplex Steel Bars and Rods Grades</i>	Duplex F51 2205 UNS S31803, Super Duplex 2507 (UNS S32750), F55 (UNS S32760)
<i>Carbon Steel Bars and Rods Grades</i>	ASTM A105, ASTM A106
<i>Monel Bars and Rods</i>	UNS 4400 (Monel 400), Monel 500
<i>Inconel Bars and Rods</i>	UNS 6600 (Inconel 600), UNS 6601 (Inconel 601), UNS 6625 (Inconel 625), Incolloy 800, UNS 8825 INCONEL (Incolloy 825)
<i>Other Grades Rods</i>	ASTM / ASME SB 564 UNS 2200 (NICKEL 200) Hastelloy 904, NICKEL 200