



Foundry Division



**Manufacturer of
Copper Alloy Cast Products**

- ▶ **Centrifugal Casting**
 - ▶ **Continuous Casting**
-

About Us

Avi Oilless Die Components founded in 1993 as a small enterprise. Avi established its name as manufacturer and supplier for press tool and plastic mould standard part all over India. We are the first ever company to produce self lubricating guide elements in INDIA. For our pioneering work in the area of Import Substitution we have been honoured with National Awards.

Avi has always been leading Indian industry with its continuous R & D and technology innovations. Apart from the standard products now company has diverted into a new business of cast engineering. (Processing of non ferrous copper alloys)

Avi offers a wide range of " Copper Base Alloys " cast products with simple shapes to complex profiles and geometry as per customers specific requirements of chemical, mechanical, metallurgical and physical properties.

Fortified by our dedication for excellence, commitment to quality & growth, Avi has every reason to be optimistic about its future in the Non Ferrous business in India and abroad. These products conform to desired specification like BIS, DIN, BS, GOST, ASTM, JIS, KS and therefore also meet typical requirements to suit particular applications .

Vision

Honesty, Integrity and Ethics have been the pillars on which the company has been built upon. Keeping this in mind, we at Avi, follow service orientated ethics to achieve technically, environmentally responsible and innovative solutions in copper alloys. With the help our team of dedicated and experienced personnel and state-of-the-art manufacturing facility, we are committed to being a dynamic and diversified global company.

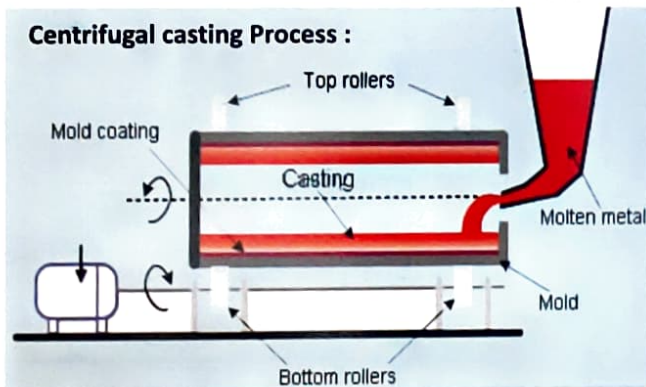
We also envision in making our products suitable for various end applications, world-over. We hold repute for delivering cost efficient and pioneering products and we aim to maintain such a reputation. We as a partner are devoted to our customers and deem complete customer satisfaction as our ultimate goal.

Plant & Machinery

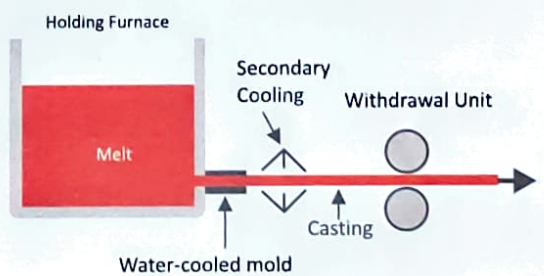
Our Manufacturing facility is equipped with following machinery	
Induction Melting Furnace	300 Kg Capacity Make Inductotherm
Oil fired melting furnace	6000 Kg melting capacity.
Overhead Crane	5 Ton and 3 Ton Capacity
Continuous cast machine	Output 100 Kg/Hour
Centrifugal casting machine	Dia 100mm to 2000 mm Capacity
Maximum casting weight produced	3000 Kg
Optical emission Spectrometer	Make - METAVISION
Vertical Turret Lathe Machine	Dia 2000mm up to 800 mm length
Lathe Machine	Dia 1600mm up to 2000mm length



Manufacturing Technology



Horizontal continuous casting



Cast Product Grades

Grade BS1400:1985	Nominal Composition	2% PS N/mm Min	Tensile Strength N/mm Min	Elongation % Min	Brinell Hardness Min	Physical Properties & Typical Use
Gun Metal						
G1/BC3	88/10/2		245	15		Pressure tight bearings, bushes, pumps and pump fitting, valves, valve bodies and valve guides under corrosive marine conditions. Cast components such as actuating nuts, valve, pump and similar components at normal temperatures under corrosive conditions. Hardware fittings, plumbing fixtures valves bodies, pump bodies, elbows, pipes taps, cocks and other hydraulic fittings where pressure tight properties are important. Pump and valve parts, steam valves, oilpumps, bushes of medium strength. Railway bearings, engine components, tractor parts and pressure components.
G2/BC2	88/8/4		245	20		
LG1	88/3/9/5	85	180	15	60	
LG2	85/5/5/5	90	200	13	60	
LG3	86/7/5/2					
LG4	88/7/2/3	130	230	14	65	
BC1	82/3/10/5		165	15		
BC6	85/5/5/5		215	18		
Phosphor Bronze						
PB1	89/10/0/1	130	250	5	60	Bearing for aero-engines, diesel engine, electrical generators and rolling mills. Gear and worm wheels, pressure vessels, pump bodies, castings and impellers for chemical plants similar to PBI-C Bearing and bushes for lighter duties.
PB2	88/12	140	260	7	80	
PB3	90/10	130	250	5	60	
PB4	90 5/9 5	130	240	5	80	
LPB-1	87/8/2/3	80	175	7	60	
Pbc2	88/12	120	195	5	60	
Pbc2B	88/12	145	295	5	80	
Lead Bronze						
LPB1	76/9/0/15					Bearings in mining machinery in corrosive water conditions, and for unlined bearings under poor lubrication conditions. Mill bearings, railway bearings and bearings for the oil industry. Bushes chill cast, centrifugally cast and continuously cast. Similar applications to LB2-C Linings for steel backed motor and aero engineer bearings for use at higher temperatures than white metal linings.
LB2	80/10/0/10	80	180	8	60	
LB3/LBC3	85/10/0/5	100	195	10	65	
LB4	85/5/0/10	60	160	7	55	
LB5	75/5/0/20	70	150	5	45	
LBC3	79/10/1/10	80	180	8	60	
LBC4	78/7/0/15	80	170	8	60	
Aluminium Bronze						
AB1	89/9/2	180	500	18	100	Propellers, pump impellers, pump and valve parts, bearings, wear rings, marine hardware, pickling hooks and baskets and in the petroleum, oil and chemical industries.
AB2	85/9/4/5	250	600	13	140	
ALNC2	84/9/4/5		490	20	120	
ALBC3	82/10/4/4	245	590	15	150	
High Tensile Brass						
HTB1	58/1/1/1/39	170	450	20	110	Components highly stressed at normal temperatures. Marine casting and fittings, hydraulic equipment. Locomotive axle boxes, pump casting, heavy rolling mill housing nuts spur and gear, wheels which are heavily loaded and slow moving.
HTB2	58/1/2/3/36					
HTB3	58/2/2/4/34	450	750	8	180	
HSBC4		410	755	12	200	
HSBC3		305	635	15	165	
Brass						
SCB1	75/25					Valves, cocks, plumbing fittings, hardware & ornamental castings, marine fittings, castings for the electrical trade, brush holders, pipe fittings, gas fittings, door & furniture fittings, switchgear bushholder. Pump bodies, bolts, nuts & plates for heat exchange equipments & small machine parts. Flanges end plates & fittings for marine applications. Similar applications to SCB5-C & for imitation jewellery.
SCB2	70/30					
SCB3	65/35	70	180	12	45	
SCB4/YBSC3	60/40	70	250	20	45	
SCB5	90/10					
SCB6	85/15	70	160	20	45	



AVI OILLESS
DIE COMPONENTS (INDIA) PVT. LTD.

An ISO 9001-2015 Certified Company

Registered Office & Factory

Gat No. 697, 734, 735, At Post Velu, Pune-Satara Highway,
Taluka Bhor, District Pune, Pin - 412 205, Maharashtra, (INDIA)

Tel. : +91-2113-253446

Web Site : www.avioilless.in,

E-mail : prashant@avioilless.in | avioilless@yahoo.in | vikas@avioilless.in