



Dayal Exim Pvt. Ltd.

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An ISO 9001:2008 Company
Certified with



Product Index



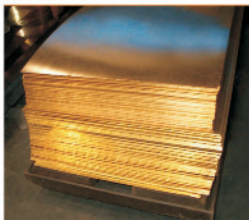
Aluminum
Ingot & Casting



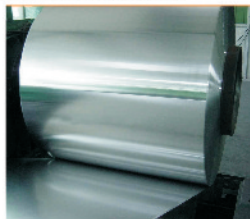
Phosphorus Bronze
Casting



Centrifugal &
Sand Casting



Copper & Brass
Components



Stainless Steel
Components

Company Profile



Dayal Exim Pvt. Ltd. is the umbrella brand of Dayal Metals promoted by Mr. BASANT SHAH. With over 33 years of experience in the Indian Market, Dayal Exim Pvt. Ltd. is the most trusted and reputed Manufacturer & Suppliers of Alloys Likes, Phosphorus Bronze, Nickel Aluminium Bronze, Copper pipes and tubes, Copper flats, Copper coils, Copper rods, Copper anodes, Copper nuggets and Copper Plates, Stainless Steel Sheet / Coils, pipes and tubes, Seamless pipes, Sheets, as well as Copper & Brass scrap Buyer.

Our astounding production unit is well equipped with cutting edge technology and modern machinery for high quality products. The persistent efforts of our dedicated and skilled team of workers, technicians and professionals contributed to the success and increase the popularity of our company.

Working with internationally renowned companies from USA, UK, Korea, Europe & Gulf has enabled our company to exhibit the traits of international class quality, precise adherence to global standards and maintaining of a through and constant update on latest developments in the Metal casting technology.

We put in our sincere and concentrated efforts towards building a sustainable environment. Development and Success for us always has greener environment quotient to it and it is underlined by our completely recyclable Metals.



QUALITY POLICY

Quality Control measures are put in place, at every stage of the production, to ensure that our products are error free and meet the specific requirements of our clients. Be it the final product or product in development or manufacturing phase, quality checks are carefully and strictly carried out at all stages to make resultant product of high standards. This is facilitated by the use of advanced production unit that is able to meet specific and high standards.

Satisfying customer specifications is one of the important processes of our business. We thrive and dedicate ourselves to meet the dynamic demands of size and grade of the various consumer industries requiring alloy products.

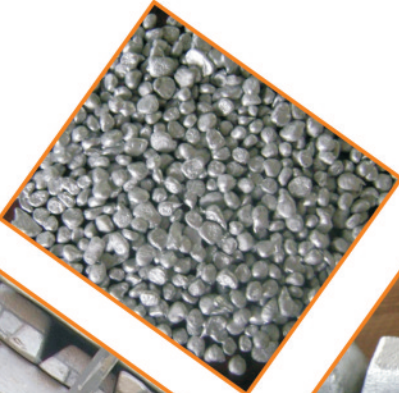
We ensure that the quality of all resources employed solidify the after sales services so that all the queries are effectively attended, furnishing best services and extending all the assistance our clients need.

QUALITY STANDARD


We adopt and follow rigorous quality standards, which are strictly adhered to, for manufacturing and products, Please look at the following documents which will be display the quality standards followed at our organisation.




Aluminum Ingot & Casting



We have gained expertise in fabricating and offering a wide range of Aluminium Alloy Ingots which is manufactured using best quality aluminum and sophisticated equipment in our fully developed manufacturing unit. These are manufactured in confirmation with the standard quality parameters and acclaimed in the domain for features such as superb tensile strength and corrosion resistance.



Free from impurities, these dimensionally accurate Aluminium Alloy Ingots have enhanced durable finish standards and capacity to withstand varying temperature. Meeting the requirements of varied industry segments, these Aluminium Alloy Ingots can be availed by our clients at pocket friendly prices.



We have gained expertise in manufacturing and offering our clients a diverse range of Aluminum Cubes which is dimensionally accurate, rugged in construction and superior in quality. In compliance with the defined domain standards, these are known for salient features such as reliable performance, longer functionality and resistance to corrosion & abrasion. Machined from premium grade aluminum and sophisticated manufacturing techniques, the complete range is tested on the basis of certain parameters to ensure that zero defect Aluminium Cubes reaches at the clients' end.

- **Aluminium Alloy Ingots**
- **Aluminium Cubes**
- **Aluminium Shots**

Phosphorus Bronze Casting



- NICKEL ALUMINIUM BRONZE (NAB)
- ALUMINIUM BRONZE
- HIGH TENSILE BRASS (MANGANESE BRONZE)
- RED LEADED BRASS
- NAVAL BRASS



- MARINE EQUIPMENTS
- HIGH CONDUCTIVITY COPPER
- LEADED TIN BRONZE
- COPPER ALLOY SAND CASTINGS FOR GENERAL APPLICATIONS
- SILICON BRONZE
- ALUMINIUM ALLOY CASTINGS

Centrifugal & Sand Casting

Dayal has the in-house foundry facility to produce high quality Bushings

Bronze Bushings and Thrust Washers are engineered and manufactured through Centrifugal Casting process to provide optimum service to Shipper Shaft , Final Drive Shaft , Lower Roller, Gearing and other high stress, high wear parts.

Centrifugal casting gives mechanical properties equivalent to that of forged material which enhances the life of bushings and thrust washers.

Different grades of bushing are used for different applications thus optimizing the performance of each component.

Spiral Grooves are provided to ensure even distribution of lubricating oil.

Comparison Between Non Ferrous Centrifugal Castings & Sand Castings



CENTRIFUGALLY CAST BRONZE
METAL GRAIN SIZE



SAND CAST BRONZE
METAL GRAIN SIZE

Copper & Brass Components

We have large production facilities for Extruded and Drawn Pipes & Tubes. Also manufacture any shape of Square, Rectangular or any other shape according to requirements.

We have large production facilities for Extruded and Drawn Flats in various production range of sizes and shapes for Electrical Engineering (Transformers, Switchgears, Panels, Earthing, Electrification - Lines)

We manufacture a wide range of rods, which are used for connectors, electrical motor components, electroplating, switchgear, ship building and power generating equipment.

Also manufacture Solid copper earth & copper boned earth rods. Threaded / Unthreaded. Solid Copper earth rods are used where the factor of corrosion is very high and exceptionally long life is required. Hence these rods are manufactured from pure and high conductivity hard drawn copper. These rods are also available with tin plating in order to reduce the risk of oxidation.

- **Copper Pipes & Tubes**
- **Copper Flats**
- **Copper/Brass Coils**
- **Copper Rod**

Stainless Steel Components

Stainless Steel Pipes / Tubes

Out Side Diameter : 0.25 inch to 14 inch

Thickness : 0.3 mm to 20

Grade : 304, 304L, 316, 316L, 309, 310, 317L, 409, 409L. & Percentage items

Stainless Steel Sheets / Plates

Thickness : 0.5 mm to 25 mm

Grade : 304, 304L, 316, 316L, 310, 409, 409L, 410, 410S, 420, 430, 436 & Percentage items

Stainless Steel Coils

Thickness : 0.2 mm to 3 mm

Grade : 304, 304L, 316, 316L, 310, 409, 409L, 410, 410S, 420, 430, 436 & Percentage items

Stainless Steel Bars

Thickness : 6 mm to 350 mm

Grade : 202, 304, 304L, 316, 316L, 310, 400, Series, 17-4 PH, Duplex, Super Duplex, 2205, 2507, Alloys steel, Tool Steel, Form : ROD, HEX, SQUARE

Tin Bronze

Chemical Composition

CuSn10 - Standard: DIN

CU	SN	PB	ZN	FE	NI	P	AL	MN	SI	SB	S
88.5-90.5	9.3-11	0.8	0.5	0.15	1.8	0.05	0.01	0.1	0.01	0.15	0.04

GbCuSn12 - Standard: DIN

CU	SN	PB	ZN	FE	NI	P	AL	MN	SI	SB	S
86-88	11.3-13	0.8	0.5	0.15	1.8	0.05	0.01	0.1	0.01	0.15	0.04

GbCuSn12Ni - Standard: DIN

CU	SN	PB	ZN	FE	NI	P	AL	MN	SI	SB	S
84-87	11.3-13	0.15	0.3	0.15	1.5-2.4	0.05	0.01	0.1	0.01	0.05	0.04

GbCuSn12Ni - Standard: DIN

CU	SN	PB	ZN	FE	NI	P	AL	MN	SI	SB	S
84-87	11.3-13	0.15	0.3	0.15	1.5-2.4	0.05	0.01	0.1	0.01	0.05	0.04

CuSn6 - Standard: DIN

CU	SN	PB	ZN	FE	NI	P	AL	SI	S
86-89.5	5.7-6.5	1.2-2	3.2-5	0.25	1	0.03	0.01	0.01	0-0.08Q

Phosphors Bronze

Chemical Composition - Physical Properties

PB-1 - Standard: BS 1400

Copper Alloys	CU	SN	PB	ZN	FE	NI	P	AL	SI	Impurities
PB 1	Rem.	10 Min	0.25	0.05	0.1	0.1	0.5 Min	0.01	0.02	0.6

PB-2 - Standard: BS 1400

Copper Alloy	Copper Alloys	SN	PB	ZN	FE	NI	P	AL	SI	Impurities
PB 2	Rem.	11 - 13	0.5	0.3	0.15	0.5	0.15 Min	0.01	0.02	0.2

PB-4 - Standard: BS 1400

Copper Alloys	CU	SN	PB	ZN	FE	NI	P	AL	SI	Impurities
PB-4	Rem.	9.5 Min	0.75	0.5	0.5	0.4 Min			0.5	

Phosphorus Bronze IS:28-1985 Grade-1 - Standard: IS: 28-1985

Copper Alloys	CU	SN	PB	ZN	FE	NI	P	AL	SI	SB	Impurities
Phosphorus Bz (Grade-1)	Rem.	6-8	0.25	0.5	0.3	0.7	0.3-0.5	0.01	0.02	0.1	1.2

Phosphorus Bronze IS:28-1985 Grade-2 - Standard: IS: 28-1985

Copper Alloys	CU	SN	PB	ZN	FE	NI	P	AL	SI	Impurities
Phosphorus Bz (Grade-2)	Rem.	10 Min	0.25	0.05	0.1	0.1	0.5 Min	0.01	0.02	0.6

Phosphorus Bronze IS:28-1985 Grade-3 - Standard: IS: 28-1985

Copper Alloys	CU	SN	PB	ZN	NI	P	Impurities
Phosphorus Bz (Grade-3)	Rem.	6.5-8.5	2-5	2	1	0.3 Min	0.5

Phosphorus Bronze IS:28-1985 Grade-4 - Standard: 28-1985

Copper Alloys	CU	SN	PB	ZN	NI	P	Impurities
Phosphorus Bz (Grade-4)	Rem.	9-11	0.25	0.05	0.25	0.15	0.8

Phosphorus Bronze IS:28-1985 Grade-5 - Standard: 28-1985

Copper Alloys	CU	SN	PB	ZN	FE	NI	P	AL	SI	Impurities
Phosphorus Bz (Grade-5)	Rem.	11-13.1	0.5	0.3	0.15	0.5	0.15 Min	0.01	0.02	0.2



Physical Properties - Phosphorus Bronze

Grade B.S.	Nominal Composition	2% PS N/mm Min	Tensile Strength N/mm Min	Elongation % Min	Brinell Hardness Min
1400: 1985					
PB1	89/10/01	130	250	5	60
PB1	88/12	140	260	7	80
PB1	90/10	130	250	5	60
PB1	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

Aluminium Bronze

Chemical Composition - Physical Properties

AB-1 - Standard BS: 1400

Copper Alloys	CU	SN	PB	ZN	FE	NI	AL	MN	SI	Impurities
AB-1	Rem.	0.1	0.05	0.5	1.5-3.5	1	8.5-10.5	1	0.25	0.30

AB-2 - Standard BS: 1400

Copper Alloys	CU	SN	PB	ZN	FE	NI	AL	MN	SI	Impurities
AB-2	Rem.	0.1	0.05	0.50	4-5.5	4-5.5	8.8-10	1.5	0.1	0.30

AB-3 - Standard BS: 1400

Copper Alloys	CU	SN	PB	ZN	FE	NI	AL	MN	SI	Impurities
AB-3	Rem.	0.1	0.03	0.4	0.5-0.7	0.1	6-6.4	0.5	2-2.4	0.8

ALBC-1 - JIS

Copper Alloys	CU	SN	PB	ZN	FE	NI	AL	MN
ALBC1	85-90	0.1	0.1	0.5	1-3	0.1-1	8-10	0.1-1

ALBC-2 - JIS

Copper Alloys	CU	SN	PB	ZN	FE	NI	AL	MN
ALBC2	80-88	0.1	0.1	0.5	2.5-5	1-3	8-10.5	0.1-1.5

ALBC-3 - JIS

Copper Alloys	CU	SN	PB	ZN	FE	NI	AL	MN
ALBC3	78-85	0.1	0.1	0.5	3-6	3-6	8.5-10.5	0.1-1.5

ALBC-4 - JIS

Copper Alloys	CU	SN	PB	ZN	FE	NI	AL	MN
ALBC4	71-84	0.1	0.1	0.5	2-5	1-4	6-9	7-15

C95400 - Standard : ASTM

Copper Alloys	CU	SN	PB	ZN	FE	NI	AL	MN
C95400	83 Min	0.1	0.03	0.1	3-5	1.5	10-11.5	0.5

C95500 - Standard : ASTM

Copper Alloys	CU	SN	PB	ZN	FE	NI	AL	MN
C95500	78 Min	0.1	0.03	0.1	3-5	3-5.5	10-11.5	3.5

C95800 - Standard : ASTM

Copper Alloys	CU	SN	PB	ZN	FE	NI	AL	MN	SI
C95800	78 Min	0.1	0.03	0.1	3.5-4.5	4-5	8.5-9.5	0.8-1.5	0.1

G-CuAl10Fe - Standard : DIN

Copper Alloys	CU	SN	PB	ZN	FE	NI	AL	MN	SI	Impurities
G-CuAl10Fe	83-89	0.2	0.1	0.4	2-3.8	2.7	8.7-10.7	0.8	0.1	1

Physical Properties - Aluminium Bronze

Grade B.S.	Nominal Composition	2% PS N/mm Min	Tensile Strength N/mm Min	Elongation % Min	Brinell Hardness Min
1400: 1985					
AB1	89/9/2	180	500	18	100
AB2	85/9/4/5	250	600	13	140
ALBC2	84/9/4/5		490	20	120
ALBC3	82/10/4/4	245	590	15	150





An ISO 9001:2008 Company



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