



Mercury

Crucible & Furnace

MERCURY CRUCIBLE FURNACE PRODUCT CATALOGUE





Mercury, offers the best solutions to meet the foundry market demands through its dynamic and highly qualified technical team.

Mercury Crucible Furnace aims to supply all the needs of non ferrous foundries, primarily Furnaces and Crucibles. Crucibles are manufactured in Brazil, while Furnaces are manufactured in Turkey.

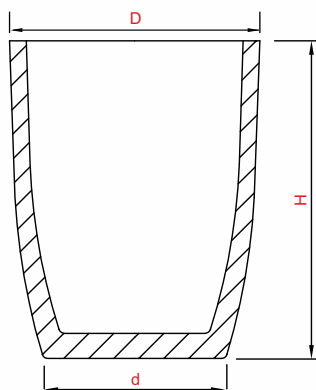
Mercury Crucible Furnace aims to expand its 30 years of regional success to Europe and intends to serve all foundries in Europe through Germany. Our goal is to increase competition in our industry and contribute to the better service of non ferrous foundries.

Mercury Crucible Furnace, offers the best solutions to meet the foundry market demands through its dynamic and highly qualified technical team.

ADVANTAGES:

- * High thermal conductivity
- * Long Life
- * Fast Melting
- * Productivity with excellent cost-benefit relationship
- * Intelligent and customized solutions
- * Energy Efficient
- * Technical Support

Code	H (mm)	D (mm)	d (mm)	Al (Kg)	Cu (Kg)
AX 001	95	75	50	0,4	1,4
AX 002	110	100	70	0,9	2,9
AX 003	130	100	70	1,1	3,7
AX 004	140	115	80	1,6	5,2
AX 005	145	120	80	1,7	5,6
AX 006	170	135	95	2,6	8,5
AX 008	185	140	95	3	9,8
AX 010	195	160	110	4,3	14
AX 013	220	165	110	5	16
AX 016	230	195	135	7,8	26
AX 020	250	200	135	9	29
AX 025	250	200	160	10	33
AX 030	300	225	160	13	43
AX 040	320	250	180	17	57
AX 050	340	250	180	19	62
AX 060	350	285	200	25	83
AX 070	390	290	200	29	94
AX 080	380	325	230	35	114
AX 090	390	325	230	30	105
AX 100	420	330	230	41	134
AX 120	425	355	250	47	153
AX 200	520	415	285	86	283
AX 300H	570	450	330	111	366
AX 400	590	500	300	132	436
AX 500	665	505	300	156	515
AX 600	670	535	340	174	574
AX 600H	730	540	340	194	641



BNS Series

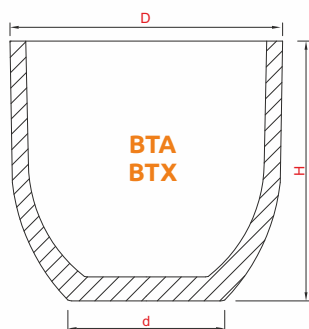
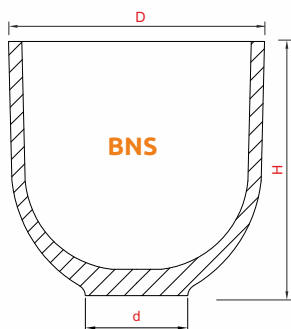
Code	H(mm)	D(mm)	d(mm)
BNS 300	700	615	245
BNS 350	800	615	245
BNS 360	900	615	245
BNS 500	750	775	310
BNS 600	900	775	310

BTA Series

Code	H(mm)	D(mm)	d(mm)	Al. (Kg)
BTA 200	620	525	320	172
BTA 300	680	615	345	272
BTA 350	790	620	345	331
BTA 360	900	625	345	387
BTA 360H	950	625	345	415
BTA 500	745	775	440	543
BTA 600	900	775	440	615
BNA 800	1000	840	305	902

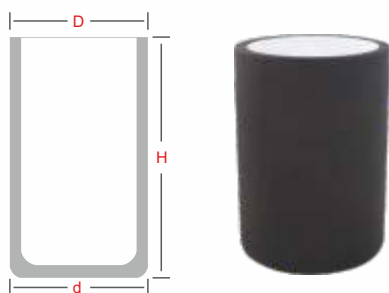
BTX Series

Code	H(mm)	D(mm)	d(mm)	Al. (Kg)
BTX 200	620	525	320	172
BTX 300	680	615	345	272
BTX 350	790	620	345	331
BTX 360	900	625	345	387
BTX 360H	950	625	345	415
BTX 500	745	775	440	543
BTX 600	900	775	440	615



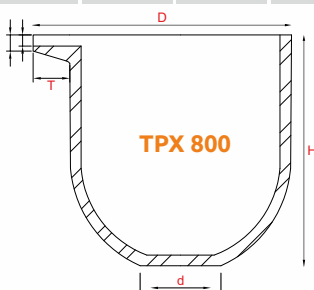
GI Series (Induction Crucibles)

Code	H (mm)	D (mm)	d (mm)	Al. (Kg)	Cu (Kg)	Liter
GI 010	150	100	95	1,3	4,5	0,6
GI 020	370	155	100	7	25	3
GI 040	310	165	160	6	19	2
GI 060	420	230	225	18	61	8
GI 070	430	260	255	21	70	9
GI 100	380	265	260	26	85	11
GI 150	460	310	305	46	152	19
GI 200	600	390	385	102	339	43
GI 250	665	395	390	116	384	49
GI 400	760	445	440	179	594	76
GI 450	710	460	455	170	562	72
GI 500	660	495	490	191	633	81
GI 700	705	540	535	197	653	84
GI 900	890	540	535	309	1022	131
GI 1000	810	605	600	378	1250	160
GI 1200	970	665	660	517	1710	219



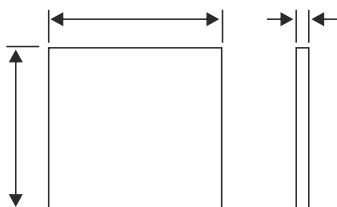
TP Series

Code	H(mm)	D(mm)	d(mm)	T(mm)	Al. (Kg)
TP 287	600	525	305	150	180
TP 412	630	615	360	150	330
TP 587	900	780	350	170	570
TP 800	1000	875	350	170	720
TPX 800	1000	840	305	170	902



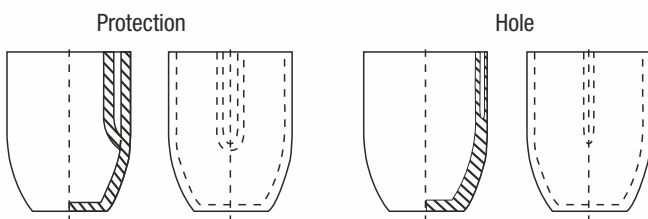


Silicon Carbide Plate

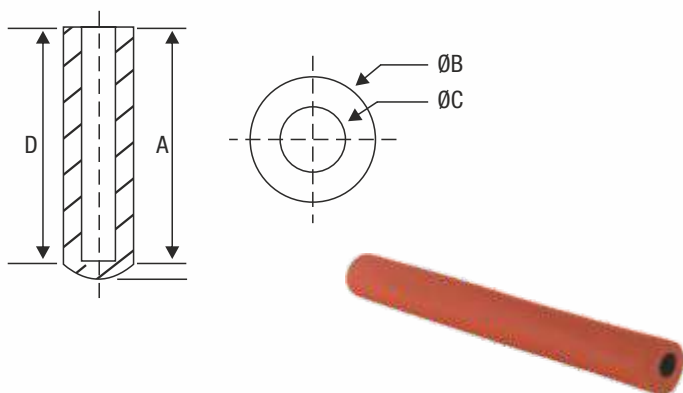


TYPE	A(mm)	B(mm)	C(mm)
Plate 01	590	640	45
Deflector 01	545	150	45

Thermocouple Protection and Crucible fitted with Thermocouple Protection or Hole

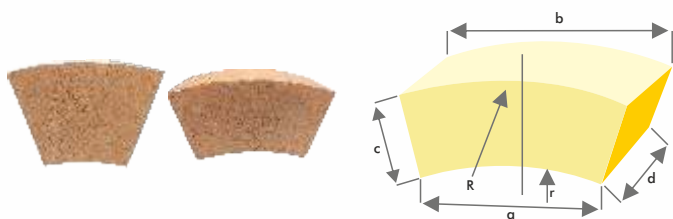


Thermocouple Protection Tubes



TYPE	A(mm)	$\varnothing B$ (mm)	$\varnothing C$ (mm)	D(mm)
PY 050	From 200 to 1000	50	25	From 170 to 970

Nominal measurements subject to process variations.




CUPOLA BRICKS

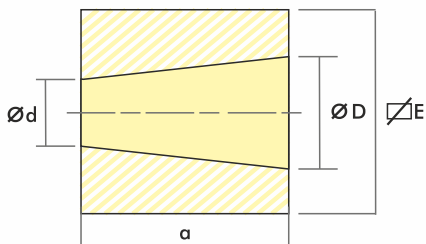
CODE	Dimension (mm)						Pieces for a course
	a	b	c	d	inner	outer	
1000	237	150	100	100	350	550	7
1001	228	151	100	100	400	600	8
1002	214	153	100	100	500	700	10
1003	205	153	100	100	600	800	12
1004	198	153	100	100	700	900	14
1005	193	153	100	100	800	1000	16
1006	-	-	100	100	900	1100	12
15012	221	154	150	100	700	1000	14
15013	212	154	150	100	800	1100	16
15013-1	205	160	150	100	900	1200	18
15013-2	-	-	150	100	950	1250	18
15014	201	154	150	100	1000	1300	20

STANDART BRICKS	Size
Standart Bricks	4x10x20
Standart Bricks	5x10x20
Standart Bricks	6,5x12,5x25



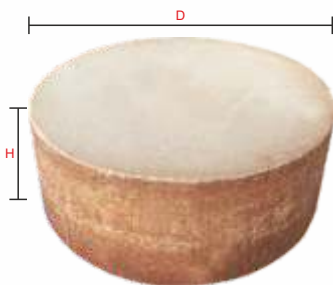
BURNER BRICKS

Code	a	Ød	ØD		Volume V dm ³
BR - 26 K	250	120	160	260	13,05
BR - 26 B	250	150	200	300	17,45
BR - 30	250	120	200	300	17,45



BRICK STAND

Code	Dimension(mm)		Volume v dm ³
	Dia Ø	h	
36 x 10	360	100	10,2
36 x 15	360	150	15,3
36 x 20	360	200	20,4
38 x 10	380	100	11,3
38 x 15	380	150	17,0
38 x 20	380	200	22,7
40 x 10	400	100	12,6
40 x 15	400	150	18,8
40 x 20	400	200	25,1
44 x 10	440	100	30,4
44 x 15	440	150	45
44 x 20	440	200	60



GRAPHITE STAND

CODE	Dimension (mm)	
	H (mm)	D (mm)
S 1	70	235
S 2	70	250
S 3	70	300
S 4	70	320
S 5	100	240
S 6	100	250
S 7	100	295
S 8	100	315
S 9	150	240
S 10	150	250
S 11	150	295
S 12	150	315
S 13	200	240
S 14	200	250
S 15	200	295
S 16	200	315
S 21	90	370
S 22	70	430
S 23	100	440
S 24	60	370
S 25	60	320
S 26	150	370
S 27	50	370
S 28	100	370
S 29	200	370
S 30	50	430
S 31	100	430
S 33	50	440
S 35	200	440
S 36	40	300
S 47	120	440





FURNACE/CRUCIBLE SUITABLE TABLE

Mercury Crucibles are suitable for the following furnaces:

BURNER SYSTEM	CRUCIBLE
GAS	BNS - BTA - BTX
ELECTRIC RESISTANCE	BNS - BTA
FUEL FIRED	BNS - BTA - BTX
INDUCTION	GI

Our Crucibles are manufactured to melt non-ferrous metals such as Aluminum, Zinc, Brass, Gold, Bronz etc.



ELECTRIC RESISTANCE



GAS FURNACE



FUEL FIRED



TILTING FURNACE



TRANSPORT LADLE



Electric Resistance furnaces are manufactured to melt Aluminum, Zinc.



MELTING FURNACE

Model	Crucible	Temperature Max. Furnace	Power (kW)	Capacity Aluminum
EMA-300	AX 300	1000	26	110
EMA-500	AX 500	1000	30	156
EMA-600	AX 600	1000	33	174
EMA-800	AX 800	1000	33	230
EMB-200	BU 200	1000	50	172
EMB-300	BU 300	1000	60	272
EMB-350	BU 350	1000	60	331
EMB-400	BU 360	1000	60	387
EMB-500	BU 500	1000	70	543
EMB-600	BU 600	1000	80	615
EMB-800	BU 800	1000	110	902

HOLDING FURNACE

Model	Crucible	Temperature Max. Furnace	Power (kW)	Capacity Aluminum
EHA-300	AX 300	1000	26	110
EHA-500	AX 500	1000	30	156
EHA-600	AX 600	1000	33	174
EHA-800	AX 800	1000	33	230
EHB-200	BU 200	1000	20	172
EHB-300	BU 300	1000	26	272
EHB-350	BU 350	1000	32	331
EHB-400	BU 360	1000	38	387
EHB-500	BU 500	1000	42	543
EHB-600	BU 600	1000	50	615
EHB-800	BU 800	1000	50	902



Gas Furnaces are manufactured to melt Aluminum, Zinc, Copper, Brass, Gold.



GAS FURNACE

Model	Crucible	Temperature Max. Furnace	Burner Output (kW)	Capacity Aluminum
GMA-300	AX 300	1300	100	110
GMA-500	AX 500	1300	150	156
GMA-600	AX 600	1300	232	174
GMA-800	AX 800	1300	348	230
GMB-200	BU 200	1200	232	172
GMB-300	BU 300	1200	232	272
GMB-350	BU 350	1200	232	331
GMB-400	BU 360	1200	232	387
GMB-500	BU 500	1200	348	543
GMB-600	BU 600	1200	465	615
GMB-800	BU 800	1200	639	902

FUEL FIRED FURNACE

Model	Crucible	Temperature Max. Furnace	Burner Output (kW)	Capacity Aluminum
FMA-300	AX 300	1300	100	110
FMA-500	AX 500	1300	150	156
FMA-600	AX 600	1300	232	174
FMA-800	AX 800	1300	348	230
FMB-200	BU 200	1200	232	172
FMB-300	BU 300	1200	232	272
FMB-350	BU 350	1200	232	331
FMB-400	BU 360	1200	232	387
FMB-500	BU 500	1200	348	543
FMB-600	BU 600	1200	465	615
FMB-800	BU 800	1200	639	902

Tilting Furnaces are manufactured to melt Aluminum, Zinc, Copper, Brass, Gold.



TILTING FURNACE

Model	Crucible	Temperature Max. Furnace	Burner Output (kW)	Capacity Aluminum
TGMA-300	AX 300	1300	100	110
TGMB-287	TP 287	1200	232	180
TGMB-412	TP 412	1200	232	330
TGMB-587	TP 587	1200	465	570
TGMB-800	TP 800	1200	639	720
TGMBX-800	TPX 800	1200	639	902



CERAMIC BLANKET

Max. Working Temperature °C	Size (mm)	Thickness (mm)	Density Kg/m ²
1260 - 1430	22000 x 610	6	96 - 128
1260 - 1430	14400 x 610	13	96 - 128
1260 - 1430	10000 x 610	18	96 - 128
1260 - 1430	7200 x 610	25	96 - 128
1260 - 1430	4200 x 610	38	96 - 128
1260 - 1430	3660 x 610	50	96 - 128



CERAMIC BOARD

Max. Working Temperature °C	Size (mm)	Thickness (mm)	Density Kg/m ²
1260 - 1430	1000 x 1200	10	300 - 360
1260 - 1430	1000 x 1200	25	300 - 360
1260 - 1430	1000 x 1200	50	300 - 360
1260 - 1430	1000 x 600	6	300 - 360
1260 - 1430	1000 x 600	9	300 - 360
1260 - 1430	1000 x 1200	100	300 - 360

Crucible lifters are designed to safely lift crucibles. A variety of lifters are available.

Advantages:

- Safe grip
- Easy to use
- It supports worker safety.
- Suitable for new and used crucibles
- Tested and approved by hundreds of customers.
- Usable in constricted conditions

CODE	CRUCIBLE SERIES
CL-01	B 100 - B 200
CL-02	B 250 - B 360
CL-03	B 500 - B 600
CL-04	B 700 - B 800



- Storage



Store crucibles in a warm, dry place.



Do not stack crucibles, or store one crucible inside another.

- Transportation



Crucibles should only be moved by sack truck with padding.

- Crucible inspection



Crucibles should be checked thoroughly for signs of damage before use.

- Installation



The appropriate stand must be used, and it must be positioned centrally, and aligned correctly.



Ceramic fibre blanket should be used for sealing/packing the top edge in bale-out and some tilting furnaces.



Leave a sufficient gap around the crucible to furnace cover/furnace wall.



Use correctly positioned grip bricks in tilting furnaces.



The flame direction should be tangential to the crucible.

- Charging



Ingots should be placed carefully into the crucible, using tongs.



Put in returns (scrap) first, then add ingots vertically.

- Melting



Only add flux after the metal is molten.



Avoid premature crucible failure by ensuring that the furnace drain hole is sealed.

- Casting



Basket tongs must hold the crucible on its lower third for lifting.



Tongs must fit evenly on both sides.



The crucible must be emptied before switching off the furnace.

- Cleaning



The crucible should be cleaned out by careful scraping while it is still red hot.



Mercury

Crucible & Furnace



The Photo belongs to our Furnace manufacturing facility in Turkey.



Mercury Crucible Furnace is represented by V-Invision Gmbh (Selahattin Kaymaz) in Europe.

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