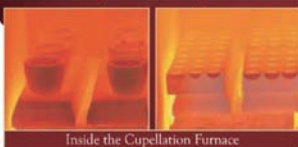




MABOR

Magnesia Refractory Cupels & Bullion Blocks

*Serving the Gold Industry
for over 110 years ...*



Inside the Cupellation Furnace



After Cupellation : Hot

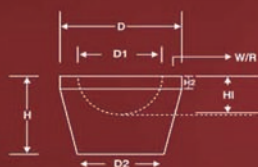
Salient features of

MABOR Magnesia Refractory Cupels & Bullion Blocks

- ◆ Robust mechanical strength
- ◆ Not affected by atmospheric changes
- ◆ No spitting of lead
- ◆ All Cupels absorb a charge of approximately 70% of their weight
- ◆ Rapid absorption of large quantity of litharge
- ◆ Free from cracking and pitting
- ◆ Beads are easily removable
- ◆ Perfect uniformity of quality
- ◆ Reduced tendency to freeze
- ◆ Consistently low losses
- ◆ Continuous Research and Development
- ◆ Products regularly tested in our own Assay Laboratory
- ◆ Our Manufacturing Unit is ISO 9001 certified for Quality Management Systems, ISO 14001 certified for Environmental Management Systems and OHSAS 18001 certified for Occupational Health and Safety
- ◆ MABOR Cupels and Bullion Blocks are manufactured on latest machinery using a unique blend of Magnesium Oxide and special fluxing ingredients.

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- D : Diameter of Cupel
- D1 : Diameter of Cup top Portion
- D2 : Diameter of Base of Cupel
- H : Height of Cupel
- H1 : Depth of Cup
- H2 : Height of Ridge
- W/R : Width of Ridge



Cupels Data

All dimensions in 'mm'

Size	Outer Dia	Dia of Cup	Dia of Base	Width of Ridge	Height of Cupel	Depth of Cup	Height of Ridge	Weight (Approx)
	D	D1	D2	W/R	H	H1	H2	g
1	22.0	17.5	16.5	2.30	18.4	4.3	5.0	13.0
2X	24.0	19.0	19.4	2.50	16.3	7.0	5.0	13.0
3	26.3	21.3	20.2	2.50	17.0	7.0	5.0	16.5
4	30.4	25.4	19.9	2.50	18.2	7.5	5.0	20.0
4A	27.0	24.0	20.0	1.50	22.0	6.0	7.5	22.0
5	31.6	26.2	21.9	2.70	19.7	7.0	5.0	24.5
6	36.3	26.4	26.1	4.95	21.2	8.5	8.0	37.5
7	39.5	31.2	29.0	4.15	22.0	11.0	6.5	44.5
PM	27.0	23.4	26.8	1.80	24.0	8.0	—	27.5
6A	40.0	32.7	30.0	3.65	25.4	12.3	6.0	47.5
7A	39.7	31.2	30.0	4.25	28.5	11.8	9.0	59.0
7AL	39.7	31.2	30.0	4.25	28.5	12.3	6.0	55.0
7B	39.7	31.2	30.0	4.25	32.0	11.8	12.5	67.5
7X	39.7	31.2	30.0	4.25	35.0	11.8	15.5	76.0
SA	40.0	30.2	30.0	4.90	25.4	8.7	6.0	54.5
8	44.3	34.2	34.6	5.05	27.1	8.5	9.0	72.5

Cupels Data

All dimensions in 'mm'

Size	Outer Dia	Dia of Cup	Dia of Base	Width of Ridge	Height of Cupel	Depth of Cup	Height of Ridge	Weight (Approx)
	D	D1	D2	W/R	H	H1	H2	g
8A	45.3	38.0	36.9	3.65	35.0	12.5	13.0	100.5
8AM	45.3	34.0	36.9	5.65	35.0	11.5	13.0	105.5
8C	44.8	34.0	35.5	5.40	31.0	12.5	11.0	89.0
8S	44.0	38.0	34.0	3.00	40.0	14.0	13.0	107.0
8Y	42.0	38.0	42.0	2.00	33.0	9.0	—	98.0
9	51.0	40.0	42.1	5.50	29.0	10.5	9.0	109.0
9C	51.0	42.0	43.0	4.50	33.5	12.0	5.5	126.0
9F	51.0	42.0	41.0	4.50	40.0	14.0	11.0	138.5
10	60.0	52.6	49.7	3.70	30.2	11.5	11.0	148.5
11	56.8	47.8	48.8	4.50	44.0	14.8	10.0	197.0
11A	56.8	47.8	48.8	4.50	44.0	11.5	10.0	210.0
12	80.2	57.5	62.5	11.35	47.0	16.5	11.0	443.0
12A	80.2	57.5	62.5	11.35	52.5	16.5	16.5	507.0
14	110.0	80.0	88.0	15.00	70.0	24.0	14.0	1187.0
15	150.0	120.0	128.0	15.00	130.0	40.0	25.0	4725.0
PC	254.0	184.7	203.2	34.65	161.64	55.42	32.33	16000.0

Cupels Data



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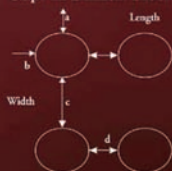
Matrix of Holes of the Bullion Blocks :
Position of Cups

Size of Bullion Blocks	No of holes	Length-wise	Width-wise
4 HB	4	2	2
4 SAHB	4	2	2
6 HB	6	3	2
6 HB (T)	6	3	2
10 HB	10	5	2
12 HB	12	4	3
12 HB (L)	12	6	2
14 HB	14	7	2
21 HB	21	7	3
24 HB	24	6	4
24 HB (L)	24	6	4

Bullion Blocks Data (Bevelled Edges)
Size 6 HB (T) / 10 HB / 12 HB (L) / 21 HB / 24 HB



Position of
Cups in Bullion Blocks



Bullion Blocks Data (Bevelled Edges)

Size 6 HB (T) / 10 HB / 12 HB (L) / 21 HB / 24 HB



All dimensions in 'mm'

Size	No of holes	a	b	c	d
4 HB	4	4.00	4.00	4.00	4.00
4 SAHB	4	5.00	5.00	6.00	6.00
6 HB	6	2.50	2.50	5.00	5.00
6 HB (T)	6	5.25	4.00	5.50	4.00
10 HB	10	5.00	5.00	6.00	4.50
12 HB	12	3.00	3.00	6.00	6.00
12 HB (L)	12	5.25	5.25	5.50	4.50
14 HB	14	3.00	3.00	2.00	2.00
21 HB	21	3.00	3.00	2.00	2.00
24 HB	24	4.00	4.00	4.00	4.00
24 HB (L)	24	5.50	4.00	5.50	5.60

Bullion Blocks Data

All dimensions in 'mm'

Size	No of Holes	Length of Block		Width of Block		Height of Block	Dia of Cup	Depth of Cup	Height of Ridge	Height of Bevelled Edge from Base	Weight (Approx)
		L	L1	W	W1						
4 HB	4	48.0	---	48.0	---	20.0	18.0	6.5	---	---	97.0
4 SAHB	4	80.0	---	80.0	---	26.0	30.0	9.0	---	---	321.0
6 HB	6	76.5	---	51.0	---	20.0	20.5	8.0	---	---	150.0
6 HB (T)	6	82.0	72.0	60.0	50.0	20.0	22.0	7.0	6.0	14.0	184.0
10 HB	10	138.0	128.0	60.0	50.0	20.0	22.0	7.0	6.0	14.0	307.0
12 HB	12	80.0	---	60.0	---	20.0	14.0	7.0	---	---	204.0
12 HB (L)	12	165.0	155.0	60.0	50.0	20.0	22.0	7.0	6.0	14.0	375.0
14 HB	14	179.0	---	54.0	---	20.0	20.0	7.5	---	---	367.0
21 HB	21	172.0	162.0	76.0	66.0	20.0	22.0	7.0	6.0	14.0	476.0
24 HB	24	124.0	114.0	84.0	74.0	20.0	16.0	7.0	6.0	14.0	402.0
24 HB (L)	24	165.0	---	120.0	---	20.0	21.5	7.0	---	---	830.0

L : Length of Block (Top)

L1 : Length of Block (Base)

W : Width of Block (Top)

W1 : Width of Block (Base)

H : Height of Block

D : Dia of Cup

H1 : Depth of Cup

H2 : Height of Ridge

H3 : Height of Bevelled Edge from Base

Bullion Blocks Data (Straight Edges)

Size 4 HB / 4 SAHB / 6 HB / 12 HB / 14 HB / 24 HB (L)



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MABOR Cupels and Bullion Blocks are packed in multiply cardboard cartons. The layers and packing matrix enable the easy removal of Cupels and Bullion Blocks using Tonges.

The cartons are easy to handle and stack well for storage.



Packing & Gross Weight details of Cartons

Cupels

Size	Nos per Carton	Outer dimension of Packed Cartons			Gross Weight Kg
		Length cm	Breadth cm	Height cm	
1	1440	39.0	23.0	18.0	19.5
2X	1296	39.0	23.0	18.5	17.5
3	1080	39.0	22.5	19.0	18.6
4	819	38.0	21.5	20.0	17.2
4A	900	39.5	27.0	16.0	20.5
5	728	39.5	22.0	19.0	18.5
6	462	39.5	22.5	18.0	18.0
7	300	41.5	22.5	17.0	14.0
PM	720	43.0	23.5	17.0	20.5
6A	300	41.5	23.0	18.0	15.0
7A	300	42.0	23.0	19.5	18.5
7A	420	50.5	30.7	17.0	25.9
7AL	420	50.5	30.7	17.0	24.3
7B	300	42.0	23.0	22.0	21.1
7X	300	42.0	23.0	23.0	23.6
SA	300	42.0	23.0	18.0	17.1
8	240	38.0	29.5	16.0	18.2

Packing & Gross Weight details of Cartons

Cupels

Size	Nos per Carton	Outer dimension of Packed Cartons			Gross Weight Kg
		Length cm	Breadth cm	Height cm	
8A	200	46.5	24.5	16.0	20.8
8AM	200	46.5	24.5	16.0	21.8
8C	240	38.5	30.2	17.5	22.3
8S	180	45.5	27.8	14.0	20.0
8Y	200	44.5	23.5	15.0	20.2
9	192	42.5	23.0	20.0	21.7
9C	160	42.5	23.0	19.0	20.9
9F	128	43.0	23.5	18.0	18.4
10	140	44.0	26.0	17.0	21.5
11	112	42.0	25.0	20.0	22.7
11A	112	42.0	25.0	20.0	24.2
12	45	42.5	26.5	16.0	20.6
12A	45	42.5	26.5	18.0	23.5
14	16	46.5	25.5	16.0	19.7
15	4	33.5	33.5	14.5	20.0
PC	1	29.5	29.5	17.5	16.6

Packing & Gross Weight details of Cartons

Bullion Blocks

Size	Nos per Carton	Outer dimension of Packed Cartons			Gross Weight Kg
		Length cm	Breadth cm	Height cm	
4 HB	224	42.0	23.0	18.5	22.8
4 SAHB	60	42.0	26.0	13.0	19.8
6 HB	120	41.0	24.0	15.5	18.8
6 HB (T)	120	43.5	27.0	15.0	22.8
10 HB	60	44.0	27.5	13.0	19.2
12 HB	105	43.0	21.5	18.0	22.2
12 HB (L)	48	38.9	19.9	22.5	19.1
14 HB	56	40.0	21.5	19.0	21.7
21 HB	42	36.0	25.0	20.0	21.3
24 HB	48	35.0	26.5	18.5	20.3
24 HB (L)	24	38.9	19.9	22.5	21.0



After Cupellation : Cooled