

**ANTS Ceramics Pvt. Ltd.**  
**99.7% Alumina Lab Wares**



**Cylindrical Crucible**



			Outer	
	Code	Capacity (ml)	Diameter (mm)	Height (mm)
1	CruCy A.2	0.2	10	6
2	CruCy A1	1	17	12
3	CruCy A3	3	17	22
4	CruCy A5	5	17	47
5	CruCy B5	5	28	13
6	CruCy A10	10	28	29
7	CruCy A15	15	28	42
8	CruCy B15	15	32	35
9	CruCy A20	20	32	40
10	CruCy B20	20	28	50
11	CruCy A30	30	35	45
12	CruCy A40	40	40	52
13	CruCy A50	50	41	56
14	CruCy A60	60	55	40
15	CruCy B60	60	41	74
16	CruCy C60	60	56	47
17	CruCy A80	80	47	65
18	CruCy B80	80	40	93
19	CruCy A100	100	52	65
20	CruCy A150	150	54	89
21	CruCy B150	150	70	55
22	CruCy A170	170	57	87
23	CruCy A225	225	64	83
24	CruCy A250	250	80	68
25	CruCy A275	275	80	67
26	CruCy A410	410	90	82
27	CruCy A450	450	84	105
28	CruCy A900	900	85	215
29	CruCy A1000	1000	100	168
30	CruCy A1500	1500	105	193
31	CruCy A2500	2500	127	247

## Conical Crucible



			Upper	Lower	
Code	Capacity (ml)	Diameter (mm)	Diameter (mm)	Diameter (mm)	Height (mm)
32	CruCon A2	2	18	15	18
33	CruCon A5	5	27	20	35
34	CruCon A20	20	33	23	42
35	CruCon A30	30	48	29	43
36	CruCon A50	50	46	33	53
37	CruCon A100	100	64	32	86
38	CruCon A150	150	63	35	90
39	ConCru A170	170	80	60	61
40	ConCru A200	200	73	40	94
41	ConCru A250	250	82	45	100
42	CruCon A300	300	91	45	87
43	CruCon A500	500	88	60	128
44	CruCon A750	750	125	73	125

## High Form Crucible



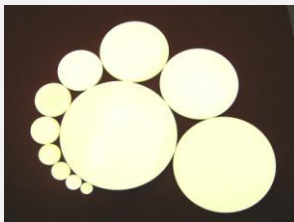
			Upper	Lower	
Code	Capacity (ml)	Diameter (mm)	Diameter (mm)	Diameter (mm)	Height (mm)
45	CruHF A5	5	23	14	29
46	CruHF A10	10	30	19	33
47	CruHF A20	20	39	24	36
48	CruHF A50	50	52	32	47
49	CruHF A100	100	62	36	65
50	CruHF A250	250	82	39	90

## Low Form Crucible



			Upper	Lower	
Code	Capacity (ml)	Diameter (mm)	Diameter (mm)	Diameter (mm)	Height (mm)
105	CruLFA10	10	39	25	25
106	CruLF A20	20	50	20	35
107	CruLF A25	25	43	22	37
108	CruLF A30	30	56	27	40
109	CruLF A50	50	61	32	44
110	CruLF A80	80	64	34	56
111	CruLF A175	175	82	66	50
112	CruLF A225	225	87	50	58

## Disc



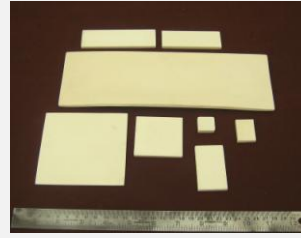
	<b>Code</b>	<b>Diameter (mm)</b>	<b>Thickness (mm)</b>
51	Cov 10	10	4
52	Cov 15	15	4
53	Cov 20	20	4
54	Cov 25	25	4
55	Cov 28	28	4
56	Cov 32	32	4
57	Cov 38	38	4
58	Cov 48	48	4
59	Cov 58	58	4
60	Cov 75	75	4
61	Cov 90	90	4
62	Cov 100	100	4
63	Cov 115	115	4
64	Cov 125	125	4
65	Cov 150	150	4

## Tray



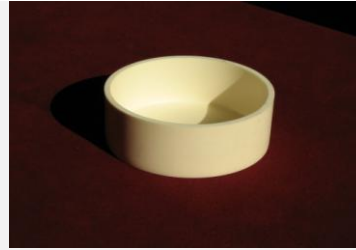
	<b>Code</b>	<b>Capacity (ml)</b>	<b>Length (mm)</b>	<b>Width (mm)</b>	<b>Height (mm)</b>
65	Tray A5	5	50	26	10
66	Tray A10	10	50	25	19
67	Tray B10	10	98	25	10
68	Tray C10	10	50	50	15
69	Tray A15	15	85	34	12
70	Tray A25	25	99	25	20
71	Tray B25	25	77	51	12
72	Tray A30	30	50	50	27
73	TrayA80	80	124	40	26
74	TrayB80	80	80	55	30
75	Tray A100	100	101	52	32
76	Tray B100	100	125	25	40
77	Tray A130	130	150	67	19
78	TrayB130	130	130	60	25
79	Tray A140	140	93	52	42
80	Tray A160	160	120	120	20
81	Tray A225	225	127	51	40
82	Tray A240	240	132	52	42
83	TrayA250	250	100	100	40
84	Tray A340	340	200	90	25
85	Tray A1000	1000	250	160	40
86	Tray A2000	2000	250	250	50

## Plate



	<b>Code</b>	<b>Length (mm)</b>	<b>Width (mm)</b>	<b>Thickness (mm)</b>
88	Plate 1	55	55	4
89	Plate 2	58	33	4
90	Plate 3	80	29	4
91	Plate 4	99	32	4
92	Plate 5	105	20	4
93	Plate 6	105	55	4
94	Plate 7	126	52	4
95	Plate 8	153	69	4
96	Plate 9	100	100	4
97	Plate 10	260	90	4
87	Plate 11	20	20	4

## Dish



	<b>Code</b>	<b>Capacity (ml)</b>	<b>Outer Diameter (mm)</b>	<b>Height (mm)</b>
98	Dish A10	10	40	10
99	Dish A20	20	50	12
100	Dish A40	40	60	20
101	Dish A100	100	75	32
102	Dish A250	250	101	43
103	Dish A450	450	111	62
104	Dish A750	750	165	40

## Boat



	<b>Code</b>	<b>Capacity (ml)</b>	<b>Length (mm)</b>	<b>Width (mm)</b>	<b>Height (mm)</b>
113	Boat A3	3	91	12	11
114	Boat A7	7	86	15	13
115	Boat A15	15	110	20	18
116	Boat A30	30	117	30	19
117	Boat B30	30	86	27	27
118	Boat A40	40	136	27	21
119	Boat A500	500	255	90	40

**Remarks:**

1 99.7% Alumina Labwares are made from ALCOA Alumina imported from Germany.

2 These Labware are made by slip casting process and special care has been taken to maintain purity of sintered Alumina to be above 99.7%

3 Sintered Grain Size is between 2-4 microns.

4 Tolerance: +/- 1mm for dimensions up to 50 mm. +/- 2mm for dimensions above 50 mm.

5 Chemical Composition of ALCOA Powder (Sintered Product) by ICP

Al <sub>2</sub> O <sub>3</sub> [%]	99.8 (99.7)	SiO <sub>2</sub> [%]	0.015 (0.05)	MgO [%]	0.04 (0.08)
Na <sub>2</sub> O [%]	0.03 (0.03)	Fe <sub>2</sub> O <sub>3</sub> [%]	0.015 (0.015)	CaO [%]	0.01 (0.03)

6 Sintered Density: above 3.9 gm/cc, above 98% TD (3.96gm/cc)

7 Lustre and Color: Vitreous Lustre, Ivory Color, Translucent

8 Solubility in boiling HF: 0.1 % by wt after three hours

Solubility in boiling HCL, H<sub>2</sub>SO<sub>4</sub> and NAOH after 12 hours: less than 10<sup>-3</sup>% by wt

9 Thermal Shock Behavior: Temperature change rate should not exceed 150<sup>0</sup>C/Hr

10 Maximum Temperature of use without load: 1750<sup>0</sup>C

11 Ants Alumina 99.7% has been tested to be Ultra High Vacuum Compatible

12 Although Alumina 99.7% doesnot reach with most acids, chemicals and reagents. It does form Low temperature eutectics with compounds Bismuth, Lead, Silicon, Tin, Antimony and rare earths. So care has to be taken to not use Alumina wares used for heat treatment of one eutectic forming compound with another eutectic forming compound.

13 Recommended Usage:

Ants 99.7% Alumina wares are especially useful to chemists, metallurgists, and others high temperature involved in work demanding contamination-free results. These wares are highly refractory, meant for use in reducing and oxidizing atmospheres. It is inert in hydrogen and carbonaceous atmospheres and offers high resistance to alkalies and other fluxes. Suitable for glass melting, including borosilicate glass.