

ANTS Ceramics Pvt. Ltd.
99.7% Alumina Lab Wares



Cylindrical Crucible



			Outer		
	Code	Capacity (ml)	Diameter (mm)	Height (mm)	Price (US\$)
1	CruCy A.2	0.2	10	6	2.95
2	CruCy A1	1	17	12	3.58
3	CruCy A3	3	17	22	4.20
4	CruCy A5	5	17	47	5.11
5	CruCy B5	5	28	13	5.11
6	CruCy A10	10	28	29	5.58
7	CruCy A15	15	28	42	6.68
8	CruCy B15	15	32	35	6.68
9	CruCy A20	20	32	40	7.77
10	CruCy B20	20	28	50	7.77
11	CruCy A30	30	35	45	9.16
12	CruCy A40	40	40	52	10.40
13	CruCy A50	50	41	56	10.87
14	CruCy A60	60	55	40	11.94
15	CruCy B60	60	41	74	11.94
16	CruCy C60	60	56	47	11.94
17	CruCy A80	80	47	65	13.50
18	CruCy B80	80	40	93	13.50
19	CruCy A100	100	52	65	15.04
20	CruCy A150	150	54	89	19.71
21	CruCy B150	150	70	55	19.71
22	CruCy A170	170	57	87	22.48
23	CruCy A225	225	64	83	25.91
24	CruCy A250	250	80	68	29.01
25	CruCy A275	275	80	67	35.01
26	CruCy A410	410	90	82	47.86
27	CruCy A450	450	84	105	56.43
28	CruCy A900	900	85	215	97.71
29	CruCy A1000	1000	100	168	139.60
30	CruCy A1500	1500	105	193	198.52
31	CruCy A2500	2500	127	247	372.27

Conical Crucible



			Upper	Lower		
Code	Capacity (ml)	Diameter (mm)	Diameter (mm)	Diameter (mm)	Height (mm)	Price (US\$)
32	CruCon A2	2	18	15	18	3.87
33	CruCon A5	5	27	20	35	4.67
34	CruCon A20	20	33	23	42	7.59
35	CruCon A30	30	48	29	43	10.40
36	CruCon A50	50	46	33	53	12.26
37	CruCon A100	100	64	32	86	22.66
38	CruCon A150	150	63	35	90	18.47
39	ConCru A170	170	80	60	61	26.53
40	ConCru A200	200	73	40	94	35.69
41	ConCru A250	250	82	45	100	41.93
42	CruCon A300	300	91	45	87	44.73
43	CruCon A500	500	88	60	128	62.64
44	CruCon A750	750	125	73	125	121.23

High Form Crucible



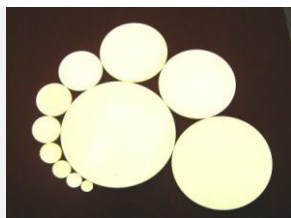
			Upper	Lower		
Code	Capacity (ml)	Diameter (mm)	Diameter (mm)	Diameter (mm)	Height (mm)	Price (US\$)
45	CruHF A5	5	23	14	29	5.11
46	CruHF A10	10	30	19	33	5.58
47	CruHF A20	20	39	24	36	7.77
48	CruHF A50	50	52	32	47	10.87
49	CruHF A100	100	62	36	65	16.43
50	CruHF A250	250	82	39	90	39.21

Low Form Crucible



			Upper	Lower		
Code	Capacity (ml)	Diameter (mm)	Diameter (mm)	Diameter (mm)	Height (mm)	Price (US\$)
105	CruLFA10	10	39	25	25	5.58
106	CruLF A20	20	50	20	35	7.77
107	CruLF A25	25	43	22	37	8.83
108	CruLF A30	30	56	27	40	9.16
109	CruLF A50	50	61	32	44	10.87
110	CruLF A80	80	64	34	56	13.50
111	CruLF A175	175	82	66	50	23.37
112	CruLF A225	225	87	50	58	29.93

Disc



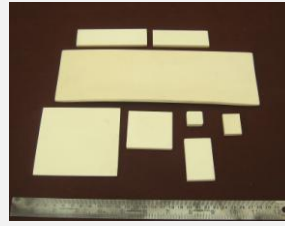
	Code	Diameter (mm)	Thickness (mm)	Price (US\$)
51	Cov 10	10	4	2.36
52	Cov 15	15	4	2.95
53	Cov 20	20	4	3.55
54	Cov 25	25	4	3.87
55	Cov 28	28	4	4.49
56	Cov 32	32	4	4.49
57	Cov 38	38	4	5.11
58	Cov 48	48	4	6.06
59	Cov 58	58	4	6.97
60	Cov 75	75	4	8.83
61	Cov 90	90	4	11.94
62	Cov 100	100	4	12.88
63	Cov 115	115	4	18.47
64	Cov 125	125	4	22.48
65	Cov 150	150	4	27.77

Tray



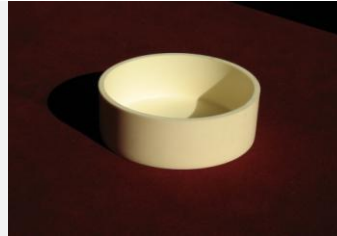
	Code	Capacity (ml)	Length (mm)	Width (mm)	Height (mm)	Price (US\$)
65	Tray A5	5	50	26	10	8.21
66	Tray A10	10	50	25	19	9.16
67	Tray B10	10	98	25	10	10.40
68	Tray C10	10	50	50	15	11.94
69	Tray A15	15	85	34	12	12.26
70	Tray A25	25	99	25	20	13.50
71	Tray B25	25	77	51	12	13.50
72	Tray A30	30	50	50	27	14.42
73	TrayA80	80	124	40	26	19.20
74	TrayB80	80	80	55	30	19.20
75	Tray A100	100	101	52	32	25.29
76	Tray B100	100	125	25	40	25.29
77	Tray A130	130	150	67	19	38.32
78	TrayB130	130	130	60	25	42.34
79	Tray A140	140	93	52	42	42.34
80	Tray A160	160	120	120	20	55.46
81	Tray A225	225	127	51	40	66.24
82	Tray A240	240	132	52	42	75.49
83	TrayA250	250	100	100	40	78.59
84	Tray A340	340	200	90	25	91.98
85	Tray A1000	1000	250	160	40	150.48
86	Tray A2000	2000	250	250	50	232.67

Plate



	Code	Length (mm)	Width (mm)	Thickness (mm)	Price (US\$)
88	Plate 1	55	55	4	7.59
89	Plate 2	58	33	4	6.06
90	Plate 3	80	29	4	8.83
91	Plate 4	99	32	4	10.40
92	Plate 5	105	20	4	11.32
93	Plate 6	105	55	4	13.50
94	Plate 7	126	52	4	17.40
95	Plate 8	153	69	4	19.65
96	Plate 9	100	100	4	25.29
97	Plate 10	260	90	4	54.30
87	Plate 11	20	20	4	2.95

Dish



	Code	Capacity (ml)	Outer Diameter (mm)	Height (mm)	Price (US\$)
98	Dish A10	10	40	10	5.58
99	Dish A20	20	50	12	7.77
100	Dish A40	40	60	20	10.87
101	Dish A100	100	75	32	18.14
102	Dish A250	250	101	43	29.01
103	Dish A450	450	111	62	51.20
104	Dish A750	750	165	40	69.34

Boat



	Code	Capacity (ml)	Length (mm)	Width (mm)	Height (mm)	Price (US\$)
113	Boat A3	3	91	12	11	6.06
114	Boat A7	7	86	15	13	7.77
115	Boat A15	15	110	20	18	8.21
116	Boat A30	30	117	30	19	11.94
117	Boat B30	30	86	27	27	11.94
118	Boat A40	40	136	27	21	14.42
119	Boat A500	500	255	90	40	130.30

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 ₂ O ₃ [%]	99.8 (99.7)	SiO ₂ [%]	0.015 (0.05)	MgO [%]	0.04 (0.08)
Na ₂ O [%]	0.03 (0.03)	Fe ₂ O ₃ [%]	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, H₂SO₄ and NAOH after 12 hours: less than 10⁻³% by wt
- 9 Thermal Shock Behavior: Temperature change rate should not exceed 150⁰C/Hr
- 10 Maximum Temperature of use without load: 1750⁰C
- 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.