



KUMAR CERAMICS PRIVATE LIMITED

PRICE LIST NO. : KCPL/01/2018



Decide with Confidence

MATERIAL GRADE: K-99. (Recrystallised Alumina)

REFRACTORY CRUCIBLES

to withstand temperature upto 1800 C. (AL₂O₃ 99%+)

CYLINDRICAL SHAPE CRUCIBLES

O/D MM	I/D MM	HEIGHT MM	VOLUME ML	PRICE INR
8	6	50	0.2	147
20	16	30	5	253
30	26	38	15	330
28	20	40	20	343
30	24	50	25	419
34	28	48	30	432
50	44	31	45	515
38	34	58	45	515
50	41	50	60	623
37	30	75	60	623
50	44	72	100	744
90	80	30	150	974
70	64	55	150	974
57	53	87	170	1,112
65	57	85	230	1,281
67	60	103	240	1,434
83	73	80	300	1,731
85	75	100	450	2,791
85	75	150	600	2,904



CONICAL TALL FORM CRUCIBLE

UPPER O/D MM	LOWER O/D MM	HEIGHT MM	VOLUME ML	PRICE INR
25	15	30	6	253
32	17	37	15	276
32	23	42	18-C	300
35	20	44	20	367
39	24	36	25	374
38	21	47	30	389
42	23	52	40	411
48	22	64	65	666
58	28	70	100	812
63	30	75	140	1,104
70	34	80	180	1,312
74	36	85	240	1,939
90	55	120	500	3,098
103	65	136	750	5,995



CONICAL SHORT FORM CRUCIBLE

UPPER O/D MM	LOWER O/D MM	HEIGHT MM	VOLUME ML	PRICE INR
29	14	23	6	253
39	25	25	12	300
41	18	35	25	437
47	20	40	35	453
54	24	50	60	646
60	30	50	80	668
63	30	57	95	794
85	40	85	300	1,973
110	75	75	400	2,631
100	52	102	500	3,098



TOLERANCE OF +/- 2 MM ON ALL DIMENS SIZES ABOVE ARE APPROXIMATE



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OUTER DIAMETER MM	HEIGHT MM	VOLUME ML	PRICE (INR)
40	10	10	276
44	10	15	289
48	28	40	538
50	12	20	384
60	12	25	449
60	20	35	520
69	23	45	619
72	14	35	529
75	27	85	762
85	35	140	1,237
90	30	140	1,237
100	44	250	1,434
111	65	550	2,515
177	44	700	3,429

TOLERANCE OF +/- 2 MM ON ALL DIMENS SIZES ABOVE ARE APPROXIMATE

MATERIAL GRADE : K-99

REFRACTORY ROUND DISC

to withstand temperature upto 1800 C. (AL₂O₃ 99%+)



DIAMETER MM	WALL THICKNESS (MM)	PRICE (INR)
10	4-5	116
15	4-5	147
20	4-5	176
25	4-5	191
28	4-5	223
32	4-5	223
38	4-5	253
48	4-5	286
58	4-5	330
75	4-5	457
90	4-5	618
100	4-5	667
115	4-5	955
125	4-5	1,163
150	4-5	1,436

TOLERANCE OF +/- 2 MM ON ALL DIMENS SIZES ABOVE ARE APPROXIMATE

MATERIAL GRADE : K-50P

REFRACTORY CRUCIBLES

to withstand temperature upto 1600 C.



UPPER O/D MM	LOWER O/D MM	HEIGHT MM	WALL THICKNESS	VOLUME ML	PRICE (INR)
240	145	150	12-14	3800	2623
190	130	190	12-14	3400	930
150	90	180	9-10	1700	550
120	70	150	8-9	850	497
110	70	130	8-9	500	444
92	60	102	8-9	250	384
67	31	83	8-9	150	334
68	45	63	8-9	85	319



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KUMAR Alumina Lab-ware (99.8%) products:-

KUMAR Alumina Lab-wares are made from ALCOA Alumina imported from North America. These can withstand very high temperature and offer good chemical resistance at high temperature. These Lab-ware are made by slip casting process/extrusion process and the purity of sintered alumina is maintained to more than 99.7%.

The Chemical Composition of our Alumina Products is:

Composition (%)	Al ₂ O ₃	>99.8
	SiO ₂	<0.03
	Fe ₂ O ₃	<0.02
	Na ₂ O	<0.07
	MgO	<0.05
	CaO	<0.02

Fired density is 3.90 gm/cc.

Colour and Lustre: Ivory colour with vitreous luster, translucent.

Guidelines for use of High Alumina Products:

- Alumina products should be completely dry before usage. If they get wet, let the crucibles or tubes dry naturally. If these have to be dried in a dryer or an oven, care should be taken that the drying takes place slowly.
- To prevent thermal stress cracks on the lab-ware products, temperature change rate should not exceed 150⁰ C/Hr.
- Avoid contact of heated alumina products with a cold surface.
- Alumina crucibles should not be heated by torch or furnaces that cannot control temperature-control rate. The uneven heating can cause cracks
- Particular shapes of the Lab-ware products are suitable for specific uses. Hence, it is the responsibility of the user to determine the suitability of the product as per his use.
- Improper loading of materials in the alumina lab-ware should be avoided as this may cause uneven heating of the lab-ware resulting in cracks

Recommended Usage:

99.8% alumina wares are useful to chemists, metallurgists and other high temperature works demanding results free of any contamination. These also find application in process equipments and scientific equipment. These are meant for use in reducing and oxidizing atmospheres, and these offer high resistance to alkalis and other fluxes. These are suitable for glass melting process including borosilicate glass.

The Characteristic Features of High Alumina Products:

The high alumina-ware have excellent Thermal Conductivity, high mechanical strength, excellent electrical insulation, zero open porosity, and a high degree of chemical inertness. These chemical-ware, having high temperature tolerance, are suitable under conditions of irradiation and are compatible in reactor design. The products have been tested to be ultra-high vacuum compatible.

Some of the KUMAR brand High Alumina Lab-ware are:

High Alumina Boats, High Alumina Crucibles, High Alumina Trays and Dishes, High Alumina Sleeves/Beads and High Alumina Tubes.