

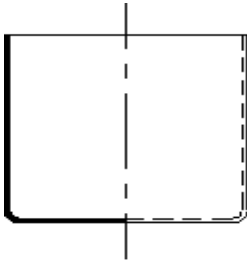


MATERIAL GRADE: K-60. ( Mullite) Gas Tight

**REFRACTORY CRUCIBLES**

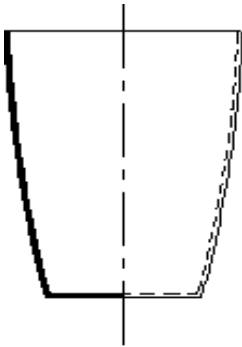
to withstand temperature upto 1600 C.

**CYLINDRICAL SHAPE CRUCIBLES**



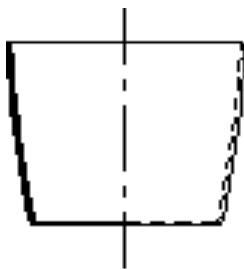
O/D MM	I/D MM	HEIGHT MM	VOLUME ML	PRICE (INR) EACH
20	16	30	05	53
30	26	40	15	56
32	29	45	30	99
50	44	31	40	119
38	34	58	45	159
50	44	72	100	378
65	57	92	230	442
83	73	80	300	456
90	80	30	150	384
85	75	100	450	391
85	75	150	500	511

**CONICAL TALL FORM CRUCIBLE**



UPPER O/D MM	LOWER O/D MM	HEIGHT MM	VOLUME ML	PRICE (INR) EACH
25	15	30	10	53
32	17	37	15	56
35	20	44	20	92
38	21	47	30	99
42	23	52	40	131
48	22	64	65	351
60	28	70	100	372
70	34	83	180	384
74	36	88	250	442
90	55	120	500	511
103	65	136	750	648

**CONICAL SHORT FORM CRUCIBLE**



UPPER O/D MM	LOWER O/D MM	HEIGHT MM	VOLUME ML	PRICE (INR) EACH
29	14	23	6	53
41	18	35	25	93
47	20	40	35	128
54	24	50	60	327
60	30	50	80	351
63	30	57	95	372
85	40	85	300	456
110	75	75	400	489
100	52	102	500	511

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



KUMAR CERAMICS PRIVATE LIMITED

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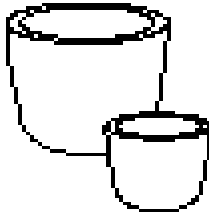


Decide with Confidence

MATERIAL GRADE: K-60. ( Mullite) Gas Tight

**REFRACTORY CRUCIBLES**

to withstand temperature upto 1600 C.



UPPER O/D MM	LOWER O/D MM	HEIGHT MM	WALL THICKNESS	VOLUME ML	PRICE (INR)
165	113	160	6-8	3400	930
130	78	152	6-8	1700	634
104	60	127	6-8	850	572
95	60	110	6-8	500	512
80	52	86	6-8	250	443
63	30	75	6-8	140	385
59	39	53	6-8	85	368

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



## KUMAR CERAMICS PRIVATE LIMITED

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### **KUMAR Alumina Lab-ware (60%) products:-**

KUMAR K-60 Alumina Lab-wares are made from Mullite Grains. 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 60% (approx.).

### **The Chemical Composition of our K-60 Alumina Products is:**

Composition (%)	Al <sub>2</sub> O <sub>3</sub>	59.78
	SiO <sub>2</sub>	35.06
	Fe <sub>2</sub> O <sub>3</sub>	0.42
	Na <sub>2</sub> O	0.25
	MgO	1.88
	CaO	1.81
	TiO <sub>2</sub>	0.35
	K <sub>2</sub> O	0.18
	LOI	0.27

Fired density is 2.8 gm/cc.

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

### **Guidelines for use of K-60 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 150<sup>0</sup> C/Hr.
- Avoid contact of heated alumina products with a cold surface.
- Alumina crucibles/tubes 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:**

60% 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.