

**KUMAR CERAMICS PRIVATE LIMITED**

PRICE LIST NO. : KCPL / 11 / 2018



Decide with Confidence

MATERIAL GRADE: K-60.**REFRACTORY COMBUSTION BOATS WITH EYE**

to withstand temperature upto 1600 C.

WIDTH	HEIGHT	LENGTH	PRICE IN INR
22 MM	17 MM	120 MM	23.70
16 MM	11 MM	105 MM	6.60
13 MM	11 MM	88 MM	5.65
12 MM	10 MM	88 MM	5.55
12 MM	9/10 MM	80 MM	5.40

TOLERANCE : +/- 1MM IN WIDTH, HEIGHT & +/- 2 MM LENGTH.

MATERIAL GRADE: K-99. (Recrystallised Alumina)**REFRACTORY COMBUSTION BOATS WITH HANDLE & EYE**

to withstand temperature upto 1800 C.

WIDTH	HEIGHT	LENGTH	PRICE IN INR
30 MM	20 MM	120 MM	595
25 MM	25MM	100 MM	476
20 MM	40 MM	100 MM	661
24 MM	17MM	123MM	443
16 MM	11 MM	105 MM	376
13 MM	11 MM	88 MM	300
12 MM	10 MM	86 MM	246
12 MM	10 MM	88 MM 'T'	252
12 MM	9/10 MM	78 MM	229
16 MM	12 MM	72 MM	330
20 MM	13 MM	69 MM	339
23 MM	15 MM	61 MM	320
21 MM	12 MM	58 MM	250
8 MM	8 MM	48 MM	220
7 MM	6 MM	28 MM	158

TOLERANCE : +/- 1MM IN WIDTH, HEIGHT & +/- 2 MM LENGTH.

MATERIAL GRADE: K-99. (Recrystallised Alumina)**REFRACTORY COMBUSTION BOATS WITHOUT EYE**

to withstand temperature upto 1800 C.

WIDTH	HEIGHT	LENGTH	PRICE IN INR
11 MM	10 MM	20 MM	161
20MM	18MM	110MM	495
30 MM	15 MM	120 MM	524
30 MM	20 MM	100 MM	564
30MM	19MM	117MM	612
27 MM	21 MM	135 MM	681
23 MM	19 MM	200 MM	821
50 MM	51 MM	54 MM	833
56 MM	48 MM	140 MM	2638
56 MM	46 MM	185 MM	3288

TOLERANCE : +/- 1MM IN WIDTH, HEIGHT & +/- 2 MM LENGTH.

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MATERIAL GRADE: K-99. (Recrystallised Alumina)				
REFRACTORY COMBUSTION BOATS/TRAYS WITHOUT HANDLE				
to withstand temperature upto 1800 C.				
WIDTH	HEIGHT	LENGTH	APP. CAPACITY (ML)	PRICE IN INR
30 MM	13 MM	82 MM	15	606
30 MM	21 MM	100 MM	30	713
92 MM	10 MM	100 MM	40	791
45 MM	21 MM	100 MM	45	791
100 MM	10 MM	119 MM	60	833
40 MM	20 MM	148 MM	60	833
50 MM	30 MM	97 MM	75	950
40 MM	26 MM	124 MM	80	960
60 MM	30 MM	85 MM	100	1,251
58 MM	30 MM	120 MM	145	2,094
100 MM	26 MM	118 MM	165	2,585
97 MM	25 MM	97 MM	175	2,743
94 MM	38 MM	117 MM	200	3,134
145 MM	15 MM	195 MM	250	3,886
43 MM	30 MM	290 MM	280	4,352
75 MM	51MM	150 MM	380	5,084
90 MM	51MM	150 MM	475	6,355
75 MM	51 MM	198 MM	490	6,555
100 MM	60 MM	200 MM	800	7,147

TOLERANCE : +/- 1MM IN WIDTH, HEIGHT & +/- 2 MM LENGTH.



MATERIAL GRADE: K-60.				
REFRACTORY COMBUSTION BOATS/TRAYS WITHOUT HANDLE				
to withstand temperature upto 1600 C.				
WIDTH	HEIGHT	LENGTH	APP. CAPACITY (ML)	PRICE IN INR
30 MM	13 MM	82 MM	15	187
30 MM	21 MM	100 MM	30	223
92 MM	10 MM	100 MM	40	241
45 MM	21 MM	100 MM	45	241
100 MM	10 MM	119 MM	60	275
40 MM	20 MM	148 MM	60	328
50 MM	30 MM	97 MM	75	415
60 MM	30 MM	85 MM	100	488
58 MM	30 MM	120 MM	145	708
97 MM	25 MM	97 MM	165	731
100 MM	26 MM	118 MM	175	848
94 MM	38 MM	117 MM	200	970
145 MM	15 MM	195 MM	250	1,690
43 MM	30 MM	290 MM	280	1,405
75 MM	51MM	150 MM	380	1,642
90 MM	51MM	150 MM	475	2,072
75 MM	51 MM	198 MM	490	2,137
100 MM	60 MM	200 MM	800	2,533

TOLERANCE : +/- 1MM IN WIDTH, HEIGHT & +/- 2 MM LENGTH.



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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 ₂ O ₃	59.78
	SiO ₂	35.06
	Fe ₂ O ₃	0.42
	Na ₂ O	0.25
	MgO	1.88
	CaO	1.81
	TiO ₂	0.35
	K ₂ 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 150⁰ 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.



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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.