



KUMAR CERAMICS PRIVATE LIMITED

PRICE LIST NO. : KCPL / 11 / 2018



Decide with Confidence

MATERIAL GRADE: K-60. (Gas Tight)
REFRACTORY SHEATHS OPEN BOTH ENDS
to withstand temperature upto 1600 C.



LENGTH	O/D	I/D	PRICE	LENGTH	O/D	I/D	PRICE
MM	MM	MM	INR	MM	MM	MM	INR
600	20	12	269	600	24	19	321
750	20	12	452	650	24	19	331
1000	20	12	634	750	24	19	552
500	22	18	251	600	26	20	340
600	22	18	308	600	29	22	441
600	24	15	326	650	29	22	455
750	24	15	507	600	32	25	465
1000	24	15	775	650	32	25	488
500	24	19	275	750	32	25	751
550	24	19	280	1000	32	25	980

TOLERANCE : +/- 1 MM IN O/D & I/D & 3 MM IN 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.