



BANSAL
SCIENTIFIC & CERAMIC
INDUSTRY

ISO 9001:2015 CERTIFIED COMPANY

BANSAL SCIENTIFIC & CERAMIC INDUSTRY

Manufacturers & Exporters of:

PORCELAIN, HIGH ALUMINA & AGATE LABWARES

For Laboratories, Hospitals and Industries

PORCELAIN WARES



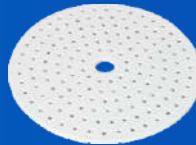
Hirsch Funnel



Buchner Funnel



Crucible with
cover



Dessicator
Plate



Mortar and
Pestle



Neti Pot

99.7% HIGH ALUMINA WARES



Crucibles



Mortar & Pestle



Combustion
Boat



Industrial
Alumina Wares

AGATE WARES



Mortar &
Pestle

**We also undertake to fabricate Porcelain
and High Alumina Products to your designs and requirements.**



+91 97585 00175 | +91 99797 90128 | +91 91490 62163



bansalscientificceramic@gmail.com



712, City Station Road, Khurja - 203131

www.bansalscientificceramic.com



BANSAL
SCIENTIFIC & CERAMIC
INDUSTRY

PORCELAIN, HIGH ALUMINA AND AGATE LABWARES
FOR LABORATORIES, HOSPITALS
AND INDUSTRIES

ISO 9001:2015 CERTIFIED COMPANY

**BANSAL SCIENTIFIC &
CERAMIC INDUSTRY**



+91 97585 00175 | +91 99797 90128 | +91 91490 62163



bansalscientificceramic@gmail.com



712, City Station Road, Khurja - 203131

www.bansalscientificceramic.com



Bansal Scientific & Ceramic Industry LLP is India's first Quality Product Company with its origin in Academic Institutions and R&D Laboratories. The company aims to become a global player in the field of Advanced Materials with superior quality...

Bansal, an ISO 9001:2015 certified company is a leading manufacturer & exporter of excellent quality Products:

- **Chemical Porcelains,**
- **Industrial Ceramics,**
- **Hospital Porcelain Wares,**
- **High Temperature Porcelain Wares,**
- **Oxide Ceramic components of Alumina (99.7%),**
- **Agate Mortar & Pestles, etc.**

With a rich background in research and product development Hytemp has developed one of the world's widest and finest range of Ceramic Laboratory Wares. The standard products for laboratory application are sold under the brand name of:



Laboratory Ceramics and Laboratory Porcelain

PORCELAIN LABWARE FOR CHEMICAL ANALYSIS AND PREPARATIVE OPERATIONS

Laboratory ceramics and laboratory porcelain manufacturing enjoys a long tradition at **Bansal: an ISO 9001:2015 certified company is a leading manufacturer & exporter of excellent quality Chemical Porcelains, Industrial Ceramics, Hospital Porcelain Wares, High Temperature Porcelain Wares**, Bansal is considered a reliable, qualified manufacturer of high-grade laboratory ceramic labware used primarily in chemical analysis and preparative operations. The maximum use of temperature is 1000°C. Apart from catering to Indian demand for laboratory wares and services, the company is exporting its range of products to USA, UK, Spain, Turkey, Thailand, Australia, Germany, Peru, Brazil, Belgium and South Africa etc.

Bansal labware fully conforms with DIN EN 60672 Type C110 guidelines & ASTM standards. Bansal basins and crucibles are extremely resistant to acids and alkaline solutions. Standard laboratory ceramics manufactured in compliance with DIN specifications (DIN EN 60672) and ASTM specifications.



IMPORTANT PROPERTIES

Thermal Shock Resistance

Average coefficient of expansion from 20 °C to 200 °C is 3.56×10^{-5} , gradually increasing to 4.69×10^{-5} at 1000 °C. Experience has indicated suitability of particular shapes for specific uses. It remains the responsibility of the user to determine the suitability for his use. To prevent thermal stress cracks on porcelain ware, **Bansal strongly recommends a heating/cooling rate not to exceed 200° C/hour. High Alumina labware temperature change rate should not exceed 150° C/hour.**

The thermal shock resistance of laboratory porcelain depends on various factors such as the correct correlation of the coefficient of expansion of porcelain body and glaze, the elasticity of glaze, etc. The most important property determining the resistance to fracture under thermal stress is the micro structure of porcelain body. This should consist mainly of Mullite crystals ($3\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2$). One of the important components of porcelain is quartz. In the final porcelain structure, however, there should be no free quartz on account of its high thermal expansion rate and phase changes which greatly weaken the porcelain body when subjected to changes of temperature. By firing at a high temperature the free quartz introduced into porcelain body is combined with the alumina present and converted into mullite. In our factory every batch of porcelain is subjected to a heat test, and the results obtained far exceed the specified limits.

The Glaze

No softening occurs up to 1000°C, and it is extremely white.

Resistance to Chemical Action

The resistance to acids and alkalis is excellent, except for hydrofluoric acid

PROLONGING LABWARE LIFE

- Follow gradual heating and cooling rates.
- Use an oven or hot plate as an intermediate step when quicker heating/ cooling rates are required.
- Gradually increase flame intensity when using a gas burner.
- Avoid contact of heated ware with a cold surface.
- Carefully inspect your labware prior to each use.
- Do not use any product that appears defective.

- **Evaporating Dish/Basin**
- **Crucibles**
- **Lids**
- **Mortar & Pestle**
- **Funnels**
- **Dessicator Plates**
- **Casseroles**
- **Combustion Boats**
- **Color/Spotting Plates**
- **Spatulas**
- **Porous Pots**
- **Porous Plates**
- **Clay pipe triangle**
- **Netipot**
- **Inhalers, etc.**


Note: We also undertake to manufacture porcelain items, of special design and shape, as provided by the laboratories and various Institutions. We shall be pleased to supply any technical information which may assist on any problem connected with laboratory porcelain

CRUCIBLES

Catlog Number	Capacity (ml)	Height (mm)	Top Outside Diameter (mm)
B-101	1.3	15	15
B-102	5	20	24
B-103	10	26	31
B-104	15	29	35
B-105	25	34	40
B-106	30	37	43
B-107	40	40	50
B-108	50	43	50
B-109	100	54	65
B-110	250	72	88

Crucible Tall Form

Crucible Tall Form with Lid, glazed inside and out except for outside bottom surface and rim.

Crucible Wide Form

Crucible Wide Form with Lid, glazed inside and out except for outside bottom surface and rim. Maximum use of temperature 1050°C

Catlog Number	Capacity (ml)	Height (mm)	Top Outside Diameter (mm)
B-115	2	12	18
B-116	5	20	24
B-117	8	20	32
B-118	10	23	35
B-119	17	26	41
B-120	20	26	42
B-121	30	31	50
B-122	35	32	51
B-123	50	37	61
B-124	75	43	66
B-125	100	46	76
B-126	150	52	84
B-127	250	60	102

CRUCIBLES GOOCH

Catlog Number	Capacity (ml)	Height (mm)	Top Outside Diameter (mm)
B-131	13	32	29
B-132	17	36	30
B-133	20	35	34
B-134	25	45	36
B-135	35	43	41
B-136	40	49	40
B-137	130	83	55

Crucible Gooch

Gooch crucible, with perforated bottom, glazed inside and out except for outside bottom surface and rim. Used for total suspended solids determination.



CRUCIBLE ROSE

Crucible Rose, unglazed for High Temperature Applications. Maximum use of temperature 1150°C



Catalog Number : B-140

Capacity (ml) : 75

Height (mm) : 60

Top Outside Diameter (mm) : 50

CRUCIBLE BITUMEN

Bitumen Crucible, with perforated bottom, glazed inside and out except for outside bottom surface and rim. Filter paper used 33 MM

Catalog Number : B-142

Capacity (ml) : 28

Height (mm) : 24

Top Outside Diameter (mm) : 44



CRUCIBLES COVER

Catlog Number	For Crucibles	Bottom I.D
B-145	B-102/115/116	26
B-146	B-103/117	34
B-147	B-104/118	38
B-148	B-105/106/119	45
B-149	B-107/121/122	54
B-150	B-109/123/124	66
B-151	B-125	67
B-152	B-110/126	90
B-153	B-127	105

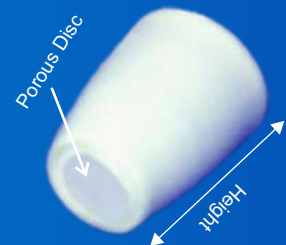
Crucible Lids/Covers

Lids/Covers for Crucibles, glazed all over except for rim.



Porous Crucible

Porous bottom crucible, with porous disc permanently formed into walls. Stable porosity and rate of flow. Available with very fine (1.2 micron), fine (5 micron) and medium (15 micron) pore dia discs.



POROUS CRUCIBLES

Catlog Number	Approx, Pore Diameter (mm)	Height (mm)	Capacity (ml)
B-160	1.2	42	25
B-161	5	42	25
B-162	15	42	25

CASSEROLE

Catlog Number	Top OD	Height (mm)	Capacity (ml)
B-201	43	23	20
B-202	70	35	60
B-203	89	45	140
B-204	100	50	210
B-205	133	77	500
B-206	144	90	750
B-207	174	100	1200

Casserole

With lip and flat porcelain handle, glazed inside and out except for rim and top of handle.



Combustion Boat

Combustion, glazed/unglazed,
Max Use Temp. 1150°C



COMBUSTION BOAT

Catlog Number	Height (mm)	Width (mm)	Length (mm)
B-211	4	6	17
B-212	8	10	60
B-213	10	16	97
B-214	13	20	100

CLAY PIPE TRIANGLE

Catlog Number

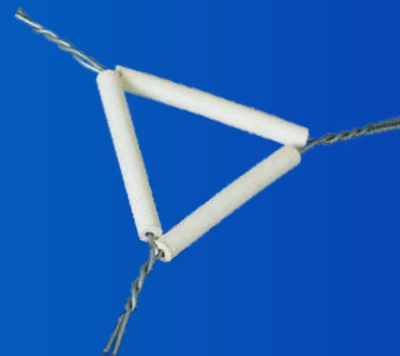
B-241
B-242
B-243
B-244
B-245
B-246

Pipe Size (mm)

50
60
75
50(with SS Wire)
60(with SS Wire)
75(with SS Wire)

CLAY PIPE TRIANGLE

With thick or thin wires, pipes unglazed



EVAPORATING BASIN

EVAPORATING BASIN (Round Form)

Evaporating Dish, Round Form with lip. Glazed inside and outside both side. For bigger Dishes, glazed inside and partially outside.



EVAPORATING BASIN (Regular Form)

Evaporating Dish, Regular Form with lip. Glazed inside and outside both side. For bigger Dishes, glazed inside and partially outside.



Evaporating Basin (Round Form)

Catlog Number	Capacity (ml)	Top Outer Dia (mm)
B-251	35	60
B-252	70	75
B-253	80	80
B-254	120	94
B-255	150	100
B-256	250	115
B-257	385	145
B-258	420	150
B-259	525	162
B-260	765	185
B-261	850	190
B-262	1000	200
B-263	1285	215
B-264	2100	265
B-265	3250	305
B-266	5000	355
B-267	8500	400

Evaporating Basin (Regular Form)

Catlog Number	Capacity (ml)	Top Outer Dia (mm)
B-275	8	25
B-276	15	40
B-277	20	50
B-278	40	60
B-279	100	75
B-280	125	85
B-281	175	100
B-282	275	110
B-283	450	125
B-284	500	140
B-285	850	150
B-286	1300	175
B-287	1700	200
B-288	3300	250
B-289	4500	300
B-290	7500	350
B-291	11000	350
B-292	14000	400
B-293	16000	450
B-294	18000	500

EVAPORATING BASIN (Flat Form)

Evaporating Dish, with lip, shallow form, glazed inside except for rim and partially outside.



EVAPORATING BASIN (Shallow Form)

Evaporating Dish, with lip, shallow form, rounded bottom edge, vertical sides, glazed inside and outside except for bottom and rim.



Evaporating Basin (Flat Form)

Catlog Number	Capacity (mm)	Outer Dia	Height (mm)
B-295	30	70	16
B-296	50	80	20
B-297	75	90	22
B-298	100	105	23
B-299	195	120	34

Evaporating Basin (Shallow Form)

Catlog Number	Capacity (mm)	Outer Dia	Height (mm)
B-305	90	77	32

Spotting Plate

Color-reaction or spot plates, glazed except for bottom surface.



COLOR/SPOTTING PLATE

Catlog Number	Length (mm)	Width (mm)	No. of Depressions
B-311	92	31	3
B-312	94	62	6
B-313	118	91	12
B-314	180	140	30

STREAK PLATE

Streak, unglazed, as used for arsenic test and by mineralogists.



FILTER DISC

Glazed all over except bottom, perforated small holes all over the surface.



Streak Plate

Catlog Number	Thickness (mm)	Width (mm)	Length (mm)
B-316	30	50	65

Filter Disc

Catlog Number	Diameter (mm)
B-318	12
B-319	20
B-320	25.5

BUCHNER FUNNEL

Buchner Funnel with Thick Stem

Buchner with thick Stem, fixed perforated plate, glazed inside and out except for rim



Catlog Number	Top Diameter (mm)	Height (mm)	For Filter paper use (mm)	Approx Capacity (ml)
B-325	35	100	27	15
B-326	50	100	40	35
B-327	60	108	50	60
B-328	75	120	70	100
B-329	100	170	90	325
B-330	125	200	110	575
B-331	150	200	130	850
B-332	200	245	175	1950
B-333	250	260	230	4000
B-334	300	305	260	5200
B-335	400	370	360	13000

Catlog Number	Top Diameter (mm)	Height (mm)	For Filter paper use (mm)	Approx Capacity (ml)
B-340	20	64	13	2
B-341	51	89	40	30
B-342	67	110	55	87
B-343	84	143	70	186
B-344	105	160	90	320
B-345	125	195	110	550
B-346	142	202	124	700
B-347	170	221	150	1060
B-348	210	270	185	1860
B-349	270	350	240	4500

Buchner Funnel with Thin Stem

Buchner with thin Stem, fixed perforated plate, glazed inside and out except for rim



Hirsch Funnel

Hirsch, with fixed perforated plate. Glaze except for rim



Catlog Number	Top Diameter (mm)	Height (mm)
B-354	30	50
B-355	42	70
B-356	50	87
B-357	55	75
B-358	78	132
B-359	94	178

HIRSCH FUNNEL

TABLE FUNNEL

Catlog Number	Top Diameter (mm)	Height (mm)	For Filter paper use (mm)	Approx Capacity (ml)
B-364	147	109	124	750
B-365	215	122	185	1900

Table Funnel

Buchner, Table type, One Piece, with side outlet for vacuum filtration. Glazed inside and out except forrim



Mortar & Pestle (Round Form)

Mortar with lip, glazed outside except bottom and unglazed inside. Pestle unglazed to grinding surface. Pestle oversized for hand comfort in grinding



MORTAR & PESTLE

Catlog Number	Top ID (mm)	Top OD (mm)	Height (mm)	Capacity (ml)
B-370	60	80	44	60
B-371	75	90	48	100
B-372	85	105	70	150
B-373	100	125	70	275
B-374	125	155	88	500
B-375	150	180	100	900
B-376	175	200	115	1500
B-377	200	230	140	2000
B-378	250	285	175	4200
B-379	300	330	205	7000
B-380	350	400	-	-
B-381	400	450	-	-

Catlog Number	Top ID (mm)	Top OD (mm)	Height (mm)	Capacity (ml)
B-385	55	70	47	50
B-386	64	80	52	65
B-387	72	90	69	145
B-388	92	115	70	275
B-389	107	130	70	400
B-390	134	163	110	750
B-391	180	210	130	1900
B-392	215	256	140	2750
B-393	242	283	148	4000

Mortar & Pestle (Deep Form)

Mortar with lip Deep Form glazed outside except bottom and unglazed inside.



PESTLE

Pestle unglazed on grinding surface. (Autoclavable)



PESTLE (Wooden Handle)

Pestle has porcelain grinding head and wooden handle. (Not autoclavable)



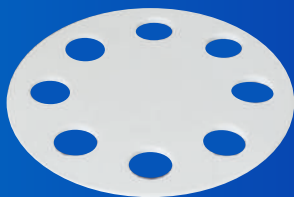
Catlog Number	For Mortar	Pestel Length (mm)
B-395	B-370/371	96
B-396	B-372/385	114
B-397	B-373/386	130
B-398	B-374/387	157
B-399	B-375/388	180
B-400	B-376/389	194
B-401	B-377/390	222
B-402	B-378/391	262
B-403	B-379/393	280

Catlog Number	For Mortar Catalog No.
B-405	B-370
B-406	B-371
B-407	B-372
B-408	B-373/385/386/387
B-409	B-374
B-410	B-375/388
B-411	B-376
B-412	B-377/390/391
B-413	B-378
B-414	B-379/393/392

DESSICATOR PLATE

Dessicator Plate without hole at center

Glazed on top surface

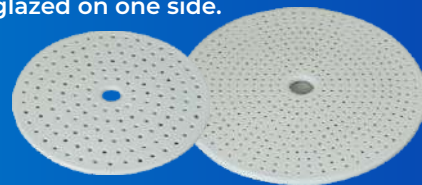


Catlog Number	Diameter OD	No. of Holes	Pol Diameter (mm)
B-421	95	3	30
B-422	115	4	30
B-423	230	8	30

Catlog Number	Top OD	No. of Holes	Center Holes Diameter	Surface hole Diameter
B-428	140	54	23	5
B-429	190	120	23	5
B-430	230	160	23	5
B-431	230	670	23	2

Dessicator Plate with numerous Small perforation & Large holes at center

Dessicator, with numerous small perforations, large hole in center, glazed on one side.



Dessicator with medium holes and large hole at centre

Glazed on top surface



Catlog Number	Diameter OD	No. of Holes	Diameter of Center Hole (mm)	Diameter of Medium Hole (mm)
B-435	140	6	35	35
B-436	165	7	35	35
B-437	190	8	50	35
B-438	230	10	50	35
B-439	290	13	50	35

Catlog Number	Diameter	No. of Holes	Holes Diameter	No. of Feet
B-445	95	3	30	3
B-446	115	4	30	3
B-447	142	5	30	3
B-448	146	7	30	3
B-449	190	7	30	3
B-450	230	8	30	3

Dessicator Plate with Feet

Dessicator on three feet 16mm High, glazed on top surface



POT MILL

Pot Mill

Cylindrical Form, All glazed except bottom and inside unglazed for effective grinding.

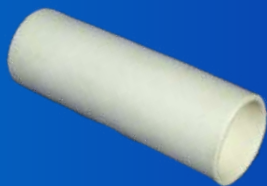
Catlog Number	Shape	Capacity (Ltr)
B-455	Cylindrical	2
B-456	Cylindrical	7
B-457	Cylindrical	10



POROUS WARES

Porous Pot

Porous, cylindrical in shape.



Catlog Number	Diameter (mm)	Length (mm)
B-460	50	150
B-461	60	150
B-462	75	150

Catlog Number	Diameter (mm)	Height (mm)	Capacity (mm)
B-466	100	25	175
B-467	125	25	300
B-468	150	25	550

Porous Plate

Porous, Round in shape.



Porous Slab

Porous Slabs/Tiles, square in shape.



Catlog Number	Size in MM (L x W x H)
B-470	100 x 100 x 12
B-471	150 x 150

HOSPITAL & HEALTH CARE ARTICLE



SPATULA WITH SPOON

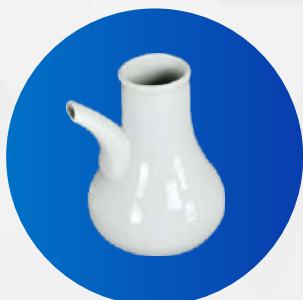
Glazed, spoon on one end, spatula on other.

Catlog Number	Length (mm)	Capacity (ml)
B-475	99	0.1
B-476	123	0.3
B-477	165	0.5
B-478	195	1
B-479	254	6



SPATULA

Catlog Number - B-485 | Length (mm) - 204



INHALERS—DR. NELSON'S TYPE

Catlog Number	Capacity (ml)	Top Dia (mm)	Height (mm)	Corks Tube
B-491	500	52	143	No
B-492	750	52	147	No
B-493	500	52	143	Yes
B-494	750	52	147	Yes



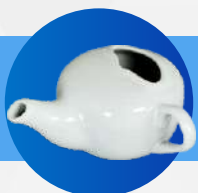
NETI POT (NOSE WASH POT)

All glazed except bottom, available in two shapes and used for washing nose.

Catlog Number	Capacity (ml)	Length (mm)	Height (mm)
B-501	100	160	50
B-502	100	158	45
B-503	185	167	46

FEEDING CUP

All glazed except bottom



Catlog Number	Capacity (ml)
B-506	180
B-507	210
B-508	250

BEEHIVE SHELVE

All glazed except bottom and top rim.



Catlog Number	Top Dia (mm)	Height (mm)	Hole Dia (mm)
B-511	60	30	15
B-512	75	38	16
B-513	85	50	16
B-514	100	60	22

MERCURY TROUGH

Round Form, all glazed except bottom



Catlog Number	Top Dia (mm)	Height (mm)	Capacity (ml)
B-518	83	41	100

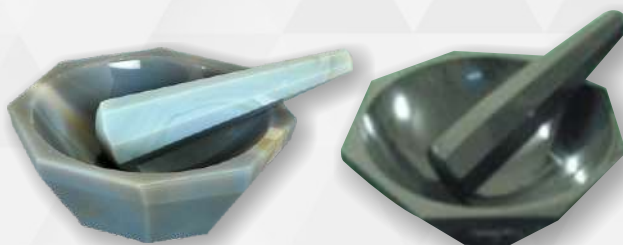
Natural Agate Stone (Haqiq) & Granite Stone Wares

GREY AGATE & BLACK GRANITE MORTAR & PESTLES

Bansal has developed one of the world's superior qualities of Natural Grey Agate Stone Mortar & Pestles & Black Granite Stone Mortar & Pestles.

Agate is a microcrystalline variety of silica, chiefly chalcedony, characterised by its fineness of grain and brightness of color. Although agates may be found in various kinds of rock, they are classically associated with volcanic rocks and can be common in certain metamorphic rocks. Aesthetically it is pleasing to the eye and due to its inherent physical characteristics it is very hard. The Hardness on the Moh's scale is 6.5.

Most agates occur as nodules in volcanic rocks or ancient lavas where they represent cavities originally produced by the disengagement of volatiles in the molten mass which were then filled, wholly or partially, by siliceous matter deposited in regular layers upon the walls. Agate has also been known to fill veins or cracks in volcanic or altered rock underlain by granitic intrusive masses. Such agates, when cut transversely, exhibit a succession of parallel lines, often of extreme tenuity, giving a banded appearance to the section. Such stones are known as banded agate, riband agate and striped agate.



GREY AGATE MORTAR & PESTLE

Natural Agate Stone,
Inner & Outer surface
completely polish only
except the Mortar bottom
surface



Catalog Number	Mortar			PESTLE Length (mm)
	Top Outer Dia (mm)	Top Inner Dia (mm)	Height (mm)	
GA-25	25	20	17	25
GA-38	38	28	23	38
GA-51	51	38	25	50
GA-64	64	51	31	65
GA-76	76	64	32	75
GA-90	90	76	36	90
GA-101	101	88	40	100
GA-114	114	101	44	110
GA-127	127	114	48	125
GA-139	139	127	52	135
GA-152	152	139	60	150
GA-165	165	152	64	160
GA-177	177	165	70	175
GA-203	203	177	75	200
GA-228	228	203	80	225

BLACK AGATE MORTAR & PESTLE

Black Granite Stone,
Inner & Outer surface
completely polish only
except the Mortar bottom
surface



Catalog Number	Mortar			PESTLE Length (mm)
	Top Outer Dia (mm)	Top Inner Dia (mm)	Height (mm)	
BA-50	58	50	26	60
BA-65	74	65	28	75
BA-75	84	75	34	90
BA-89	100	89	40	100
BA-100	120	100	50	110
BA-125	140	125	53	135
BA-150	165	150	60	160
BA-175	195	175	70	190
BA-200	220	200	76	210

Note : Other shapes are available on special order. Other information regarding Agate ware properties is available upon request.

Oxide Ceramic Components of Alumina

99.7% HIGH ALUMINA WARES FOR CHEMICAL ANALYSIS AND PREPARATIVE OPERATIONS

With a rich background in research and product development Bansal has developed one of the world's widest and finest range of Alumina laboratory wares. The alumina labware (Crucibles, Trays, Boats etc.) developed by Bansal are among the best in 99.7% alumina category and have become a global product to benchmark with. The maximum use of temperature is 1800 °C.

High Alumina ware is 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.

Apart from catering to Indian demand for laboratory wares and services, the company is exporting its range of products to USA, UK, Spain, Turkey, Australia, Germany, Brazil, Belgium and South Africa etc.

Recommended for use with refractory metals such as Molybdenum, Platinum, Rhodium, Tungsten, Tantalum and Iridium. **Bansal strongly recommends a heating/cooling rate not to exceed 150° C/hour.**



IMPORTANT PROPERTIES

- 99.7% Alumina Labwares are made from ALCOA Alumina imported from Germany.
- 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%.
- Sintered Grain Size is between 2-4 microns
- Tolerance: +/- 1mm for dimensions up to 50 mm. +/- 2mm for dimensions above 50 mm.
- **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)

- Sintered Density: above 3.9 gm/cc, above 98% TD (3.96gm/cc)
- Lustre and Color: Vitreous Lustre, Ivory Color, Translucent
- 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
- Thermal Shock Behavior: Temperature change rate should not exceed 150°C/Hr
- Maximum Temperature of use without load: 1750°C
- Bansal Alumina 99.7% has been tested to be Ultra High Vacuum Compatible
- 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.

- Crucibles
- Disc (Crucible Cover)
- Rectangular Tray
- Plate
- Dish
- Combustion Boat
- Alumina Beads
- Alumina Pipes

We also undertake to manufacture High Alumina items, of special design and shape, as provided by the laboratories and various Institutions. We shall be pleased to supply any technical information which may assist on any problem connected with High Alumina articles.

Recommended Usage:

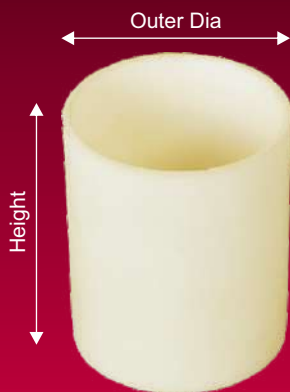
Bansal 99.7% Alumina wares are especially useful to chemists, metallurgists, and others high temperature involved in work demanding contamination-free results. These wares are highly refractory, meant for use in reducing and oxidizing atmospheres. It is inert in hydrogen and carbonaceous atmospheres and offers high resistance to alkalies and other fluxes. Suitable for glass melting, including borosilicate glass.



ALUMINA CRUCIBLES

Crucible Cylindrical Form

99.7% Alumina, Cylindrical Form, Max use of temp. 1750 °C



Catalog Number	Capacity (ml)	Top Outer Diameter (mm)	Height (mm)
ACCL-0.2	0.2	10	6
ACCL-1	1	17	12
ACCL-3	3	17	22
ACCL-5a	5	17	47
ACCL-5b	5	28	13
ACCL-10	10	28	29
ACCL-15a	15	28	42
ACCL-15b	15	32	35
ACCL-20a	20	32	40
ACCL-20b	20	28	50
ACCL-30	30	35	45
ACCL-40	40	40	52
ACCL-50	50	41	56
ACCL-60a	60	55	40
ACCL-60b	60	41	74
ACCL-60c	60	56	47
ACCL-80a	80	47	65
ACCL-80b	80	40	93
ACCL-100	100	52	65
ACCL-150a	150	54	89
ACCL-150b	150	70	55
ACCL-170	170	57	87
ACCL-225	225	64	83
ACCL-250	250	80	68
ACCL-275	275	80	67
ACCL-410	410	90	82
ACCL-450	450	84	105
ACCL-900	900	85	215
ACCL-1000	1000	100	168
ACCL-1500	1500	105	193
ACCL-2500	2500	127	247

CRUCIBLE CONICAL FORM

99.7% Alumina, Conical Form, Max use of temp. 1750°C



CRUCIBLE LOW FORM

99.7% Alumina, Low Form, Max use of temp. 1750°C



Catalog Number	Capacity (ml)	Top OD (mm)	Bottom OD (mm)	Height (mm)
ACCO-2	2	18	15	18
ACCO-5	5	27	20	35
ACCO-20	20	33	23	42
ACCO-30	30	48	29	43
ACCO-50	50	46	33	53
ACCO-100	100	64	32	86
ACCO-150	150	63	35	90
ACCO-170	170	80	60	61
ACCO-200	200	73	40	94
ACCO-250	250	82	45	100
ACCO-300	300	91	45	87
ACCO-500	500	88	60	128
ACCO-750	750	125	73	125

Catalog Number	Capacity (ml)	Top OD (mm)	Bottom OD (mm)	Height (mm)
ACL-10	10	39	25	25
ACL-20	20	50	20	35
ACL-25	25	43	22	37
ACL-30	30	56	27	40
ACL-50	50	61	32	44
ACL-80	80	64	34	56
ACL-175	175	82	66	50
ACL-225	225	87	50	58



CRUCIBLE HIGH FORM

99.7% Alumina, High Form, Max use of temp. 1750°C

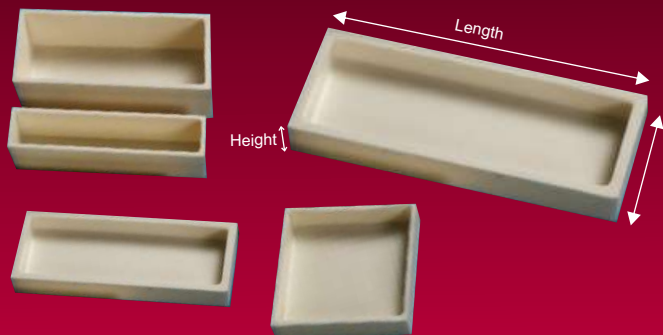
Catalog Number	Capacity (ml)	Top OD (mm)	Bottom OD (mm)	Height (mm)
ACH-5	5	23	14	29
ACH-10	10	30	19	33
ACH-20	20	39	24	36
ACH-50	50	52	32	47
ACH-100	100	62	36	65
ACH-250	250	82	39	90



RECTANGULAR TRAY

Rectangular Tray

99.7% Alumina Rectangular Tray, Max use of temp. 1750 OC



Catalog Number	Capacity (ml)	Length (mm)	Width (mm)	Height (mm)
AT-5	5	50	26	10
AT-10a	10	50	25	19
AT-10b	10	98	25	10
AT-10c	10	50	50	15
AT-15	15	85	34	12
AT-25a	25	99	25	20
AT-25b	25	77	51	12
AT-30	30	50	50	27
AT-80a	80	124	40	26
AT-80b	80	80	55	30
AT-100a	100	101	52	32
AT-100b	100	125	25	40
AT-130a	130	150	67	19
AT-130b	130	130	60	25
AT-140	140	93	52	42
AT-160	160	120	120	20
AT-225	225	127	51	40
AT-240	240	132	52	42
AT-250	250	100	100	40
AT-340	340	200	90	25
AT-1000	1000	250	160	40
AT-2000	2000	250	250	50



DISH

99.7% Alumina Dish, unglazed,
Max use of temp. 1750 OC

Catalog Number	Capacity (ml)	Diameter (mm)	Height (mm)
AD-10	10	40	10
AD-20	20	50	12
AD-40	40	60	20
AD-100	100	75	32
AD-250	250	101	43
AD-450	450	111	62
AD-750	750	165	40

DISC/COVER

99.7% Alumina, Crucible Cover, Max use of temp. 1750 OC



PLATE

99.7% Alumina, Rectangular, Max use of temp. 1750 OC



Catalog Number	Diameter (mm)	Thickness (mm)
ACOV-10	10	4
ACOV-15	15	4
ACOV-20	20	4
ACOV-25	25	4
ACOV-28	28	4
ACOV-32	32	4
ACOV-38	38	4
ACOV-48	48	4
ACOV-58	58	4
ACOV-75	75	4
ACOV-90	90	4
ACOV-100	100	4
ACOV-115	115	4
ACOV-125	125	4
ACOV-150	150	4

Catalog Number	Length (mm)	Width (mm)	Thickness (mm)
AP-1	20	20	4
AP-2	55	55	4
AP-3	58	33	4
AP-4	80	29	4
AP-5	99	32	4
AP-6	105	20	4
AP-7	105	55	4
AP-8	126	52	4
AP-9	153	69	4
AP-10	100	100	4
AP-11	260	90	4

COMBUSTION BOAT

99.7% Alumina, unglazed,
Max use of temp. 1750 OC



Catalog Number	Capacity (ml)	Length (mm)	Width (mm)	Height (mm)
ACB-3	3	91	12	11
ACB-7	7	86	15	13
ACB-15	15	110	20	18
ACB-30a	30	117	30	19
ACB-30b	30	86	27	27
ACB-40	40	136	27	21
ACB-500	500	255	90	40



99.5% ALUMINA THERMOCOUPLE BEADS : 2/4 BORE

Max use of temp. 1750 °C

Catalog Number	Outer Diameter (mm)	Bore Inner Diameter (mm)
A99TB-1	3.5	1.0
A99TB-2	4.5	1.2
A99TB-3	5.5	1.2
A99TB-4	7.2	1.4
A99TB-5	8.5	1.8



ALUMINA TUBES (ONE END CLOSED/BOTH ENDS OPEN)

99.5% Alumina tubes, , For upto 1700/1400 °C application

Note : Tolerance upto 24mm OD : +/- 1 mm in OD and ID.

Tolerance beyond 24mm OD : +/- 4% of diameter or +/- 2 mm whichever is maximum.

99.5% ALUMINA TUBES (FOR UPTO 1700 °C APPLICATION)

Catalog Number	Outer Dia (mm)	Inner Dia (mm)
A99T-6	6	4
A99T-8	8	5
A99T-10	10	6
A99T-12	12	8
A99T-15	15	10
A99T-20	20	15
A99T-24	24	18
A99T-25	25	17
A99T-30	30	22
A99T-35	35	28
A99T-40	40	32
A99T-45	45	37
A99T-50	50	40
A99T-55	55	45
A99T-62	62	52
A99T-65	65	55
A99T-70	70	60
A99T-75	75	65
A99T-80	80	68
A99T-85	85	73
A99T-90	90	78
A99T-95	95	83
A99T-100	100	88
A99T-110	110	98
A99T-116	116	104

80% ALUMINA TUBES (FOR UPTO 1400 °C APPLICATION)

Catalog Number	Outer Dia (mm)	Inner Dia (mm)
A80T-8	8	4
A80T-10	10	7
A80T-12	12	8
A80T-15	15	11
A80T-20	20	15
A80T-22	22	17
A80T-25	25	19
A80T-29	29	22
A80T-32	32	25
A80T-37	37	30
A80T-40	40	33
A80T-44	44	37
A80T-48	48	40
A80T-58	58	50
A80T-65	65	58
A80T-75	75	65
A80T-85	85	75
A80T-100	100	90
A80T-110	110	95
A80T-120	120	105



BANSAL
SCIENTIFIC & CERAMIC
INDUSTRY

ISO 9001:2015 CERTIFIED COMPANY

**BANSAL SCIENTIFIC &
CERAMIC INDUSTRY**

Manufacturers & Exporters of:

PORCELAIN, HIGH ALUMINA & AGATE LABWARES

For Laboratories, Hospitals and Industries



+91 97585 00175 | +91 99797 90128 | +91 91490 62163



bansalscientificceramic@gmail.com



712, City Station Road, Khurja - 203131

www.bansalscientificceramic.com