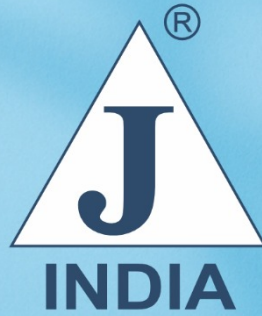


ISO 9001:2015 & 14001 :2015 CERTIFIED COMPANY

66
YEARS

Experience
& Service
to Laboratory



SILICO&CHEMICO

PORCELAIN WORKS



Porcelain, Alumina & Agate Wares

For Laboratories, Hospitals and Industries



Certificate of Registration

This is to certify that

Silico & Chemico Porcelain Works

C - 5, Industrial Estate, G.T Road, Khurja - 203131 (Uttar Pradesh), India.

has been assessed by RICL and found to comply with the requirements of

ISO 14001 : 2015 Environmental Management Systems

For the following activities:

Manufacture & Export of Scientific Laboratory Wares and Ceramic Articles for Industrial & other Application.

This Certificate is Valid from 01/04/2024 Until 31/03/2025

Date of Initial Certification: 25/03/2021
Date of Current Certification: 01/04/2024
1st Surveillance on or before: 29/02/2025
1Ind Surveillance on or before: 29/02/2026
Certification Valid Until: 31/03/2027



Certificate No.:
24RN04AD



CB-MS-2605

This certificate can be verified at www.iafsearch.org,
www.uafaccreditation.org or at www.riclisso.com
United Accreditation Foundation INC, 400 North Center Dr Ste 202,
Norfolk, VA 23502, United State of America.

UAF is member of International Accreditation Forum (IAF). Its membership status can be verified at www.iaf.nu.
This Certificate remains the property of Royal Impact Certification Limited. Must be returned on request or if certificate is withdrawn. Validity of this certificate is subject to successful surveillance audits as per dates given above.

Royal Impact Certification Ltd.

Director
Royal Impact Certification Ltd.

823, Tower-B, ITHub, Plot No A-40, Sector - 82, Noida 201301, India.
www.riclisso.com, info@riclisso.com
Phone : +91 120 4113893



Certificate of Compliance

This is to certify that the technical documentation for the product:

Scientific Laboratory Wares and Ceramic Articles for Industrial & Other Applications

(Product Details as per Annexure)

Manufactured by:

Silico & Chemico Porcelain Works

C - 5, Industrial Estate, G.T. Road, Khurja - 203131 (Uttar Pradesh), India.

Complies with the requirements (technical documentation including inspection & test results) of **Construction Products Directive 89/106/EEC** Hence manufacturer's declaration of conformity according to above regulation is accepted. **Silico & Chemico Porcelain Works** can place the CE marking as per laid down regulations on the products mentioned above.

EN 10993-14, BS 6748, EN 1159, BS 7134
Certificate Number / Certificate No. : CE-BV-2106-3948

Datum Van Publicatie / Date of Issue : 30/06/2021
Vervaldatum / Date of Expiry : 29/06/2024
1st Annual surveillance audit due on : 29/05/2022
1Ind Annual surveillance audit due on : 29/05/2023

Royal Stancert B.V.

Keurmerk Beoordelingen - Wereldwijde Beoordelingen

Regd. Office - Joop Geerinkweg 701, 1114 AB Amsterdam, The Netherlands.
(KVK-nummer 71431802 / RSN 438713159 - Richtsnoer - Besloten Vennootschap).
This certificate remains the property of Royal Stancert B.V. and must be returned whenever demanded. The validity of this certificate can be verified at <http://www.royalstancert.org>. Royal Stancert B.V. is an independent system, product and personnel assessment body accredited by Global Euro Accreditation Centre, Georgia (GCCN - 654). Email: info@royalstancert.org



213948

[Signature]
Director (Certification)



PAC-GEAC-1506-299

65
YEARS

Experience
& Service
to Laboratory

Certificate

This is to Certify that

Silico & Chemico Porcelain Works

C-5, Industrial Estate, G.T. Road,
Khurja - 203131, Uttar Pradesh, India

has been found in Compliance with requirements of
Quality Management System
ISO 9001:2015
for the following scope:

Manufacture and Export of Scientific, Laboratory Wares and Ceramic Articles for industrial and other Applications

Certificate No. : QMS/08242/1018
Original Certificate Date : 26-October-2018
Issue Date : 25-October-2021
Expiry Date : 24-October-2024

To check this certificate status visit:
"http://uasl.uk.com/certifiedorganization.html"

[Signature]
Authorized Signature
Quality Control Certification
UK Office: 1829, Cypresswood House
Treviso Park, Truro-TR48UN, Cornwall, UK
India Office: 2nd Floor, Arjun Market,
Naraina, New Delhi - 110 040, India

*Quality Control Certification (QCC) accredited by "UKAS, England, UK". This certificate remains the property of "QCC" to whom it must be returned on request.

65
YEARS

Experience
& Service
to Laboratory



BRAND LABORATORY PORCELAIN

INTRODUCTION

Established in 1959, Silico & Chemico Porcelain Works, is a leading manufacturer and exporter of Chemical Porcelain, Industrial Ceramics, Hospital Porcelain Wares, High Temperature Porcelain Wares, Porous Ceramics, 99.7% High Alumina Wares and Agate Mortar & Pestles.

Our company is affiliated to premier business organizations like Confederation of Indian Industries, Indian Ceramic Society, India Institute of Ceramics, Export Promotion Bureau, Chemical and Allied Products Exports Promotion Council (CAPEXIL) and All India Pottery Manufacturers Association.

Porcelain, due to its inherent properties like resistance to all reagents except hydrofluoric acid, resistance to thermal shock with low coefficient of expansion, good thermal conductivity and mechanical strength have made it a widely used material for industrial and laboratory supplies. The demand of chemical porcelain is increasing in view of extensive research and development, besides the growing industrial activities in the field of chemicals, fertilizers and petrochemicals, throughout the world.

IMPORTANT PROPERTIES OF CHEMICAL PORCELAIN WARE

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, Silico 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 in the microstructure 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 subject 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 acid and alkalies is excellent, except for hydrofluoric acid.

PROLONGING LABWARE LIFE

Follow gradual heating and cooling rate.

- 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

QUALITY POLICY

Our Quality Policy is to earn customer loyalty by providing products and services of the highest quality. ISO 9001:2008, certificate awarded to us, is a testament to this fact. We listen to our customers and provide them with quality products in a safe and responsible way.

The company is able to deliver the products on time with the help of a well established and efficient logistics department. Owing to the premium quality of our products, we have an export percentage of 50%. We regularly export to many countries of North America, Europe, Africa and Asia.

PRODUCT RANGE

A deep understanding of the industry and requirements of the customers, coupled with sound technological expertises and experience, have led us to leading position and as worldwide reputation as a trustworthy company supplying finest quality products.

All our products are endowed with "J India" Trade Mark. Silico & Chemico Porcelain Works is engaged as a manufacturer and exporter of the following:

Chemical Porcelain Wares

Hospital Porcelain Wares

Porous Ceramics

99.7% High Alumina Wares

Industrial Ceramics

High Temperature Porcelain Wares

Porcelain Wares

Agate Mortar & Pestles

Crucibles, Dessicator Plates, Evaporating Basins, Buchner Funnels, Hirsch Funnels, etc. are some of the products manufactured by us in the above given categories.

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

WARRANTY

Silico, expressly warrants its products to conform to the material specifications outlined in this catalog. This is our sole warranty with respect to these goods.

The characteristics of the raw materials and nature of the processes used to produce catalog items make it impossible to guarantee exact measurements and capacities.

Dimensional descriptions indicate relative sizes and are provided as convenient reference for our customers. If your dimensional needs are specific, please contact a Silico customer service representative.

Silico makes no other warranty, expressed or implied, for any kind whatever. Silico expressly disclaims any implied warranty of merchantability and any implied warranty of fitness for a particular purpose intended by the purchaser.

AWARDS

Silico & Chemico Porcelain Works has always been a pioneer, be it in developing and introducing quality products in the market or conforming to industry standards even before they become mandatory. Given below are some of the prestigious awards which have been bestowed upon us:

Special Felicitation by the Indian Ceramic Society & Director of Industries.

Prof. Sasadhar Ray Memorial Award

Padamshri Dr. T.N Sharma Memorial Award

Fellowship of Indian Institute of Ceramics

Life Time Achievement Award by the Indian Ceramic Society

Export Promotion Award by Govt. of U.P., India

INFRASTRUCTURE

Silico & Chemico Porcelain Works has a strong and comprehensive infrastructure comprising of latest machines and highly experienced, skilled and efficient technocrats. The machines function with high level of time & cost efficiency, enabling us to provide our products at highly competitive prices. We have a highly skilled work force with indepth knowledge of ceramics. The state-of-the-art production unit, skilled workforce and quality control engineers are pivotal in our success, owing to which, we are able to produce 200 thousand articles per month. Based on the feedback from our clients, we work to design the products that are innovative and unique. We comprehend the needs and wants of clients and try not to meet but exceed their expectations. Technology plays a very important role in designing product with beautiful aesthetic appeal and consistent quality. We continually upgrade technology to keep abreast with the changing times.

DIRECTIONS FOR ORDERING

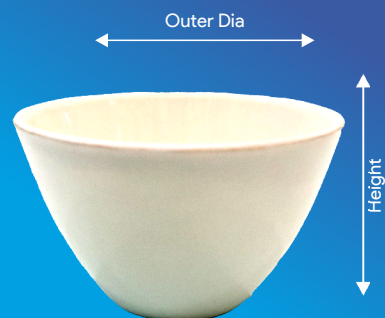
When ordering please specify full particulars along with Catalog No. and size. As it is not possible to deal directly with a large number of laboratories, we have arrangements with Laboratory furnishers, all over the world, to stock and distribute our products. The factory also keeps stock of all the products to give prompt service to Authorized Stockists and Laboratories alike.

CRUCIBLE, LOW FORM

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Height (mm)
J-134	2	18	12
J-348	5	25	15
J-135	8	32	20
J-349	10	35	23
J-136	17	41	26
J-350	20	43.5	27
J-357	25	45	29
J-137	30	50	31
J-351	35	51	32
J-138	50	61	37
J-352	75	66	43
J-139	100	76	46
J-140	150	84	52
J-361	180	83	55
J-141	250	102	60
J-353	500	142	68

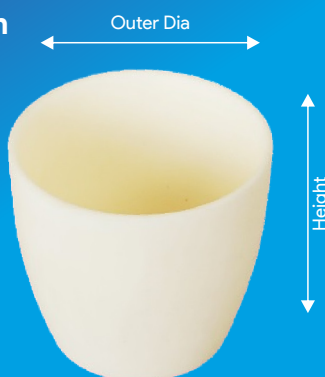
Crucible, Low Form

Crucibles, Low Form, Chemical-porcelain ware. Glazed inside and out, except outside bottom surface and rim. Without cover. Limit of use, 1150°C. Silico & Chemico strongly recommends a heating/cooling rate not to exceed 200 Degree C per hr.



Crucible, Middle Form

Crucibles, Middle Form, Chemical-porcelain ware. Glazed inside and out, except outside bottom surface and rim. Without cover. Limit of use, 1150°C. Silico & Chemico strongly recommends a heating/cooling rate not to exceed 200 Degree C per hr.



CRUCIBLE, MIDDLE FORM

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Height (mm)
J-308	5	31	22
J-118	10	30	25
J-119	15	35	29
J-120	30	43	36
J-121	40	50	40
J-122	50	53	43
J-123	100	65	54
J-320	230	82	65
J-124	250	88	72

CRUCIBLE, HIGH FORM

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Height (mm)
J-116	1.3	15	15
J-117	5	24	20
J-322	13	27	33
J-323	15	30	38
J-324	20	34	38
J-326	25	38	40
J-328	35	40	50
J-329	55	46	53
J-330	75	48	61
J-331	85	51	65
J-332	125	59	72
J-333	250	80	100

Crucible, High Form

Crucibles, High Form, Chemical-porcelain ware. Glazed inside and out, except outside bottom surface and rim. Without cover. Limit of use, 1150°C. Silico & Chemico strongly recommends a heating/cooling rate not to exceed 200 Degree C per hr.



ROSE CRUCIBLE

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Height (mm)
J-151	75	50	60

Rose Crucible

Rose Crucible, Chemical-porcelain ware. Unglazed. Without perforated cover or tube. Limit of use, 1400°C. Silico & Chemico strongly recommends a heating/cooling rate not to exceed 200 Degree C per hr.



Lid for Crucible

Crucible Covers, Chemical-porcelain ware. Glazed all over except for rim. Limit of use, 1150°C. Silico & Chemico strongly recommends a heating/cooling rate not to exceed 200 Degree C per hr.



LID FOR CRUCIBLE

Catlog Number	Inner Dia (mm)	For Crucible Diameter (mm)
J-125	26	Porcelain Cover, 26 mm for: 116, 117, 134, 348
J-126	34	Porcelain Cover, 34 mm for: 135, 118, 143, 308, 322, 323, 362
J-127	38	Porcelain Cover, 38 mm for: 119, 144, 148, 149, 150, 324, 349, 363
J-128	47	Porcelain Cover, 47 mm for: 136, 120, 142, 145, 326, 328, 329, 350, 357, 364
J-129	53	Porcelain Cover, 53 mm for: 137, 121, 151, 330, 331, 351
J-339	54	Porcelain Cover, 54 mm for: 122
J-340	58	Porcelain Cover, 58 mm for: 122, 146
J-130	69	Porcelain Cover, 69 mm for: 123, 138, 332, 352
J-131	80	Porcelain Cover, 80 mm for: 139
J-132	93	Porcelain Cover, 93 mm for: 140, 320, 333, 361
J-133	108	Porcelain Cover, 108 mm for: 124, 141
J-236	155	Porcelain Cover, 155 mm for: 353

GOOCH CRUCIBLE

Catlog Number	Volume (ml)	Outside Diameter (mm)	Height (mm)
J-143	10	29	32
J-362	17	30	36
J-363	20	34	35
J-144	25	35	43
J-364	35	41	43
J-145	40	40	49
J-146	130	55	83

Gooch Crucible

Gooch Crucibles, Chemical-porcelain ware. Used for total suspended solids determinations. Perforated bottom. Glazed inside and out except outside bottom surface and rim. Limit of use, 1150°C. Without cover.



Bitumen Crucible

Bitumen Crucible, Chemical-porcelain ware. Perforated bottom and large filtering surface. Glazed inside and outside, except outside bottom surface and rim. Without cover. For Filter Paper diameter 30-33mm

BITUMEN CRUCIBLE

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Use Filter Paper size (mm)
J-142	28	44	30-33

POROUS CRUCIBLE

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Microns
J-148	25	36	1.2 micron
J-149	25	36	5 micron
J-150	25	36	15 micron

Porous Crucible

Porous Bottom Crucible, Chemical-porcelain ware, with porous disc permanently formed into walls. Stable porosity and rate of flow. Approximate pore diameter: 1.2 microns (very fine), 5 microns (fine) and 15 microns (medium).



EVAPORATING DISH, DEEP

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Height (mm)
J-388	4	28	18
J-389	10	40	18
J-390	20	50	22
J-163	35	60	24
J-164	70	73	31
J-165	80	80	30
J-393	105	85	41
J-166	125	95	43
J-167	160	105	44
J-168	230	115	47
J-396	250	125	48
J-169	350	145	48
J-609	390	130	52
J-376	420	152	43
J-610	500	140	61
J-170	558	168	53
J-611	750	155	66
J-171	765	185	54
J-377	850	190	56
J-400	920	170	74
J-378	1000	202	77
J-612	1135	187	81
J-172	1285	215	75
J-613	1500	202	84
J-173	2100	265	80
J-614	3000	255	105
J-174	3250	305	95
J-615	4200	300	115
J-403	5000	355	130
J-406	10000	400	190

Evaporating Dish, Deep

Evaporating Dishes, Chemical-porcelain ware, Round deep form with lip. Round bottom. Highly resistant to chemicals. Withstand temperatures to 1150°C (2102°F). Glazed inside and except for rim and partially outside.



EVAPORATING DISH, FLAT FORM

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Height (mm)
381	10	50	10
382	30	60	13
176	40	70	16
177	55	80	20
178	75	90	22
179	110	105	23
180	195	120	34
383	300	150	40
385	1000	200	55

Evaporating Dish, Flat Form

Evaporating Dish, Chemical-porcelain ware, Shallow form with lip, flat bottom. Highly resistant to chemicals. Withstand temperatures to 1150°C (2102°F). Glazed except for rim and part of outside bottom.



BUCHNER FUNNEL

Catlog Number	Capacity (ml)	Cup ID (mm)	Use Filter Paper size (mm)
J-183	2	14	13
J-184	30	41	35-40
J-185	87	56	50-55
J-186	186	72	70
J-187	320	92	90
J-188	550	112	110
J-189	700	126	110-124
J-190	1060	152	142-150
J-191	1860	187	185
J-192	4500	242	240

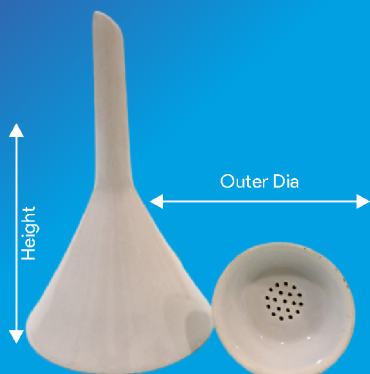
Buchner Funnel

Buchner Filter Funnels, Chemical porcelain ware, with fixed perforated plate. Glazed inside and outside with the exception of the rim. Highly resistant to chemical attack. Autoclavable.



Hirsch Funnel

Hirsch Filter Funnels, Chemical-porcelain ware, With fixed perforated plate. Highly resistant to chemical attack. Autoclavable.



HIRSCH FUNNEL

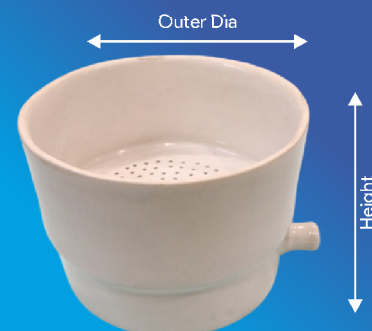
Catlog Number	Top Outside Diameter (mm)	Height (mm)	Use Filter Paper size (mm)
434	30	50	10
193	42	70	10
194	55	75	13-15
195	50	87	25-30
196	78	132	40-47
197	94	178	55

TABLE FUNNEL

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Use Filter Paper size (mm)
J-181	750	147	110-124
J-182	1900	215	185

Table Funnel

Buchner, table type, Chemical-Porcelainware, one piece, with side outlet for vacuum filtration. Glazed inside and out except for rim.



CASSEROLE

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Height (mm)
105	20	43	23
106	60	70	35
107	140	89	45
108	210	100	50
109	500	133	77
110	750	144	90
111	1200	174	100

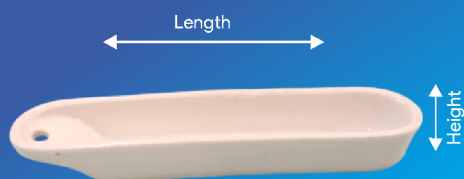
Casserole

Casserole, Chemical porcelain ware with pouring lip and flat porcelain handle. Glazed inside and out, with exception of rim and top of handle. For use at temperatures up to 1150°C. Silico & Chemico strongly recommends a heating/cooling rate not to exceed 200 Degree C per hr.



Combustion Boat

Combustion Boats, Chemical-porcelain ware. Unglazed. Limit of use, 1150°C (2102°F). Silico & Chemico strongly recommends a heating/cooling rate not to exceed 200 Degree C per hr.



COMBUSTION BOAT

Catlog Number	Length (mm)	Width (mm)	Height (mm)
J-801	80	11	8
J-802	86	13	8
J-112	17	6	4
J-113	60	10	8
J-114	95	15	10
J-115	102	20	13

MORTAR & PESTLE SET (ROUGH)

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Outer Height	Pestle Length (mm)
438	60	80	44	98
439	100	90	48	98
440	150	105	70	114
441	275	125	70	130
442	500	148	75	157
443	600	155	88	157
444	900	180	100	180
445	1500	200	115	194
446	2000	230	140	222
447	2500	250	142	262
448	4200	285	175	280
449	7000	330	205	280
450	–	400	205	–
451	–	450	240	–

Mortar & Pestle Set (Rough)

Mortar, Hard Chemical-Porcelainware. Mortars feature a lip and a glazed outside.

Pestle, Hard Chemical-Porcelainware. Pestles are full glazed except the flat top surface. Pestles are over-sized for hand comfort when grinding.



Mortar & Pestle Set (American Design)



Mortar, Hard Chemical-Porcelainware. Mortars feature a lip and a glazed outside.

Pestle, Hard Chemical-Porcelainware. Pestles are full glazed except the flat top surface. Pestles are over-sized for hand comfort when grinding.

MORTAR & PESTLE SET (AMERICAN DESIGN)

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Outer Height	Pestle Length (mm)
198	50	70	47	98
199	65	80	52	98
200	145	90	69	98
201	275	115	70	114
202	400	130	81	130
203	750	163	110	180
435	1100	186	115	194
204	1900	210	130	222
436	2750	256	140	262
205	4000	283	148	280

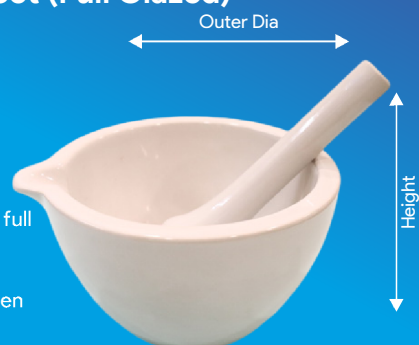
MORTAR & PESTLE SET (FULL GLAZED)

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Outer Height	Pestle Length (mm)
J-601	25	60	32	93
J-602	30	70	37	93
J-603	60	81	42	98
J-604	100	91	46	98
J-605	150	100	50	114
J-606	225	113	56	114
J-607	275	125	64	130
J-608	350	144	71	157
J-609	500	148	75	157
J-610	600	163	82	180
J-611	900	183	90	194
J-612	1500	215	104	222

Mortar & Pestle Set (Full Glazed)

Mortar, Hard Chemical-Porcelainware. Mortars feature a lip and a glazed outside and inside

Pestle, Hard Chemical-Porcelainware. Pestles are full glazed with the flat top surface. Pestles are oversized for hand comfort when grinding.
Full



Mortar & Pestle Set (European Design)

Mortar, Hard Chemical-Porcelainware. Mortars feature a lip and a glazed Inside and outside.

Pestle, Hard Chemical-Porcelainware. Pestles are full glazed except the flat top surface. Pestles are oversized for hand comfort when grinding.



MORTAR & PESTLE SET (EUROPEAN DESIGN)

Catlog Number	Capacity (ml)	Top Outside Diameter (mm)	Outer Height	Pestle Length (mm)
246	70	65	40	115
247	170	90	55	115
248	400	130	65	135
249	700	150	70	150
250	1000	180	80	175
251	2600	240	100	210
252	6000	330	140	210

PESTLE ONLY ROUGH

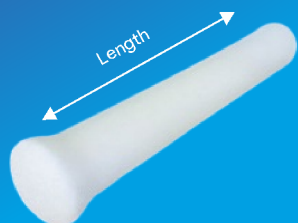
Catlog Number	Length (mm)	Head Outside Diameter (mm)	For Mortar
J-452	98	27	J-438,J-439,J-198,J-199,J-200
J-206	114	30	J-440,J-201
J-207	130	36	J-441,J-202
J-208	157	42	J-442,J-443
J-209	180	50	J-444,J-203
J-210	194	56	J-445,J-435
J-211	222	57	J-446,J-204
J-212	262	62	J-447,J-436
J-213	280	68	J-449,J-205

Pestle Only Rough

Pestle Hard Chemical-porcelainware. Mortars feature a lip and a glazed Inside and outside. Pestle glazed to grinding surface. Pestle oversized for hand comfort in grinding.
Pestle, Hard Chemical-porcelainware. Pestles are full glazed except the flat top surface. Pestles are oversized for hand comfort when grinding.



Pestle Only Full Glazed



Mortar, Hard Chemical-Porcelainware. Mortars feature a lip and a glazed Inside and outside.

Pestle, Hard Chemical-Porcelainware. Pestles are full glazed except the flat top surface. Pestles are over-sized for hand comfort when grinding.

PESTLE ONLY FULL GLAZED

Catlog Number	Length (mm)	Head Outside Diameter (mm)	For Mortar
J-620	98	27	J-601,J-602,J-603,J-604
J-621	114	30	J-605,J-606
J-622	130	36	J-607
J-623	157	36	J-608, J-609
J-624	180	50	J-610
J-625	194	56	J-611
J-626	222	57	J-612

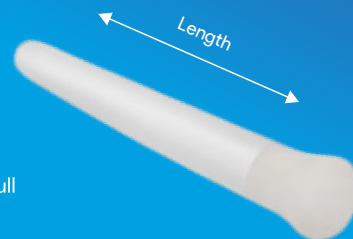
PESTLE ONLY EUROPEAN DESIGN

Catlog Number	Length (mm)	Head Outside Diameter (mm)	For Mortar
J-453	115	24	J-246,247
J-454	135	30	J-248
J-455	150	36	J-249
J-456	175	42	J-250
J-457	210	55	J-251, J-252

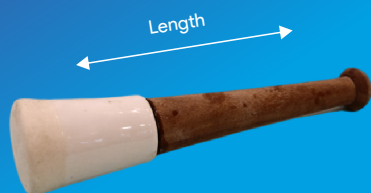
Pestle Only European Design

Pestle Hard Chemical-porcelainware. Mortars feature a lip and a glazed Inside and outside. Pestle glazed to grinding surface. Pestle oversized for hand comfort in grinding.

Pestle, Hard Chemical-porcelainware. Pestles are full glazed except the flat top surface. Pestles are over-sized for hand comfort when grinding.



Pestle Wooden Handle



Pestle, Hard Chemical-porcelainware. Pestles are full glazed except the flat top surface. Pestles are over-sized for hand comfort when grinding.

PESTLE WOODEN HANDLE

Catlog Number	Length	Head OD	Porcelain Length
J-458	100	30	33
J-459	110	31	33
J-215	125	31	35
J-216	187	43	57
J-460	225	52	75
J-461	260	55	78
J-218	301	63	95

PORCELAIN DESICCATOR PLATE WITHOUT HOLE AT CENTER

Catlog Number	Plate Dia (mm)	No. of Holes	Dia of Holes (mm)
J-365	95	3	30
J-366	115	3	30
J-152	230	8	30

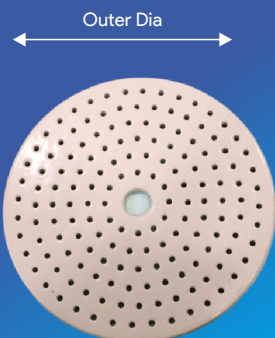
Porcelain Desiccator Plate without Hole at Center

Desiccator Plate without Feet, Chemical-porcelain ware. Glazed in one side. Highly resistant to chemicals. Withstand temperatures to 1150°C (2102°F). Autoclavable.



Porcelain Desiccator Plate with numerous small Holes & large Hole at Center

Desiccator Plate, Chemical-Porcelainware are glazed on one side and perforated with numerous small holes and a large center hole. Without feet. Highly resistant to chemicals. Withstand temperatures to 1150°C (2102°F). Autoclavable.



PORCELAIN DESICCATOR PLATE WITH NUMEROUS SMALL HOLES & LARGE HOLE AT CENTER

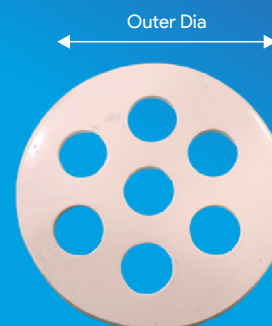
Catlog Number	Plate Dia (mm)	Centre Hole Dia (mm)	No. of Holes	Dia of Holes (mm)
J-159	140	23	54	5
J-372	180	23	120	5
J-160	190	23	120	5
J-373	220	23	160	5
J-161	230	23	160	5
J-162	230	23	670	2
J-374	280	23	162	5
J-375	290	23	210	5

PORCELAIN DESICCATOR PLATE WITH HOLE AT CENTER

Catlog Number	Plate Dia (mm)	No. of Holes	Center Hole Dia (mm)
J-367	140	6	30
J-368	165	7	30
J-369	190	8	47
J-370	230	10	47
J-371	290	13	47

Porcelain Desiccator Plate with Hole at Center

Desiccator Plate without Feet, Chemical-porcelain ware. Glazed in one side. Highly resistant to chemicals. Withstand temperatures to 1150°C (2102°F). Autoclavable.



Porcelain Desiccator Plate with Stand



Desiccator Plate, Chemical-porcelain ware are glazed on one side and perforated with 30 mm dia. holes. Supported by three small feet. Highly resistant to chemicals. Withstand temperatures to 1150°C (2102°F). Autoclavable.

PORCELAIN DESICCATOR PLATE WITH STAND

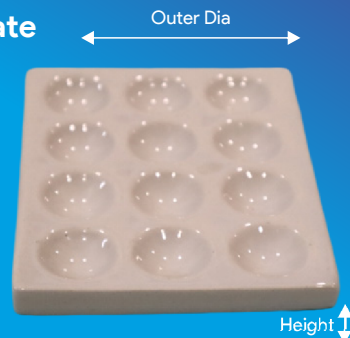
Catlog Number	Plate Dia (mm)	No. of Holes	Hole Dia (mm)	Height (mm)
J-153	95	3	30	14
J-154	115	4	30	14
J-155	142	5	30	14
J-156	146	7	30	14
J-157	190	7	30	13.5
J-158	230	8	30	13

COLOR PLATE/SPOT PLATE

Catlog Number	Length (mm)	Width (mm)	Depressions
J-219	92	31	3
J-462	106	71	6
J-463	82	82	9
J-220	112	92	12
J-221	118	91	12
J-222	155	118	12
J-223	180	140	30

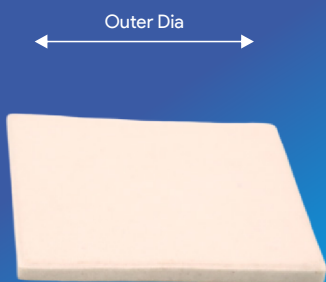
Color Plate/Spot Plate

Color Plate, Chemical-Porcelainware. This color-reaction or spot plate is glazed except for bottom surface.



Streak Plate

Streak Plate, Hard Chemical-Porcelainware. Unglazed.



STREAK PLATE

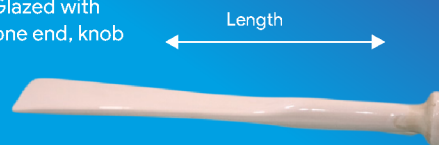
Catlog Number	Length (mm)	Width (mm)	Thickness (mm)
J-224	65	50	3

SPATULA'S

Catlog Number	Length (mm)
J-225	203

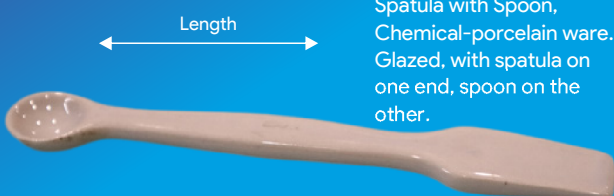
Spatula

Spatula, Chemical-Porcelainware. Glazed with long spatula on one end, knob on the other.



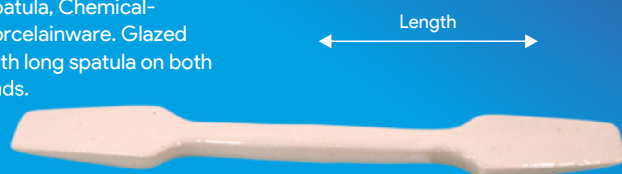
Spatula's

Spatula with Spoon, Chemical-porcelain ware. Glazed, with spatula on one end, spoon on the other.



Spatula's

Spatula, Chemical-Porcelainware. Glazed with long spatula on both ends.



SPATULA'S

Catlog Number	Length (mm)
J-226	99
J-227	123
J-470	145
J-228	165
J-229	198
J-471	220
J-230	260

SPATULA'S

Catlog Number	Length (mm)
J-464	105
J-465	130
J-466	145
J-467	160
J-468	185
J-469	200

BEEHIVE SHELVES

Catlog Number	Top Dia (mm)	Height (mm)	Hole Dia (mm)
J-473	60	30	15
J-474	75	38	16
J-475	85	50	16
J-476	100	60	22

Beehive Shelves

Beehive Shelves, Chemical-Porcelainware, all glazed except bottom and top rim.



Length



Clay Pipe Triangle

Clay Pipe Triangle, With thick or thin wires, pipes unglazed

CLAY PIPE TRIANGLE

Catlog Number	Size (mm)
J-480	50
J-481	60
J-482	75



HIGH ALUMINA PRODUCTS

'J' brand High Alumina wares is made of 99.6% pure aluminum oxide. Highly resistant to chemical attack, this alumina-ceramic ware is especially useful to chemists, metallurgists and other involved in high temperature work demanding contamination-free results.

High Alumina ware is highly refractory, meant for use in reducing and oxidizing atmospheres. It is inert in hydrogen and carbonaceous atmosphere and offers high resistance to alkalis and other fluxes. Suitable for glass melting, including borosilicate glass.

Recommended for use with refractory metals such as Molybdenum, Platinum, Rhodium, Tungsten, Tantalum and Iridium. High-Alumina Labware temperature change rates should not exceed 150°C/hour.

These High Alumina ware items are available from laboratory supply dealers or directly from Silico & Chemico Porcelain Works. Other shapes are available on special order. Other information regarding High Alumina ware properties is available upon request.

PROPERTIES

PROPERTIES	VALUE/RESULT
Density	3.922 gm/cc
Water Absorption	NIL
Color	Ivory
Flexural Strength (MOR)	493.4 MPa
Hardness (Moh's Scale)	+9
Hardness (Rockwell Scale)	84
Coefficient of Thermal Expansion (30°C - 1000°C)	8.21 (1 × 100/°C)
Maximum Use Temperature	1750 °C
Chemical Resistance with Conc. H ₂ SO ₄ at 100°C (4 Hrs.)	0.0008%
Chemical Resistance with 10% NaOH at 100°C (4 Hrs.)	0.0003%
Chemical Resistance with H ₂ PO ₄ at 90°C (4 Hrs.)	0.0008%

CHEMICAL ANALYSIS

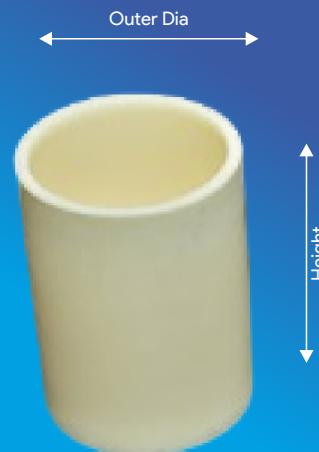
Al ₂ O ₃	99.71%
SiO ₂	0.04%
Fe ₂ O ₃	0.05%
TiO ₂	Trace
CaO	0.05%
MgO	0.06%
Na ₂ O	0.05%
K ₂ O	Trace
L.O.I.	0.02%
TOTAL	99.98%

CYLINDRICAL CRUCIBLE

Catlog Number	Capacity (ml)	Size Outside Diameter (mm)	Height (mm)
HACC-2	2	13	25
HACC-3	3	17	23
HACC-5	5	17	48
HACC-5-A	5	28.5	15
HACC-10	10	28	29
HACC-15	15	28	42
HACC-15-A	15	32	35
HACC-20	20	32	40
HACC-20-A	20	28	53
HACC-30	30	35	45
HACC-40	40	40	52
HACC-50	50	35	64
HACC-50A	50	41	56
HACC-60	60	41	74
HACC-60-A	60	56	47
HACC-80	80	47	56
HACC-80-A	80	40	93
HACC-100	100	52	65
HACC-150	150	54	89
HACC-150A	150	70	55
HACC-170	170	57	87
HACC-225	225	64	83
HACC-250	250	80	68
HACC-275	275	80	75
HACC-410	410	90	82
HACC-450	450	84	105
HACC-900	900	85	215
HACC-1000	1000	100	168
HACC-1500	1500	105	193
HACC-2500	2500	127	247

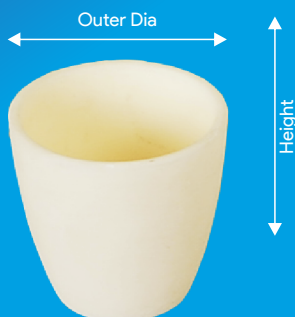
Cylindrical Crucible

Made of 99.7%-pure aluminum oxide. Highly resistant to alkalis and other fluxes. Highly refractory and inert in hydrogen and carbonaceous atmospheres. Suitable for glass melting, including borosilicate glass. Limit of use: 1750[degree]C.



High Form Crucible

Made of 99.7%-pure aluminum oxide. Highly resistant to alkalis and other fluxes. Highly refractory and inert in hydrogen and carbonaceous atmospheres. Suitable for glass melting, including borosilicate glass. Limit of use: 1750[degree]C.



HIGH FORM CRUCIBLE

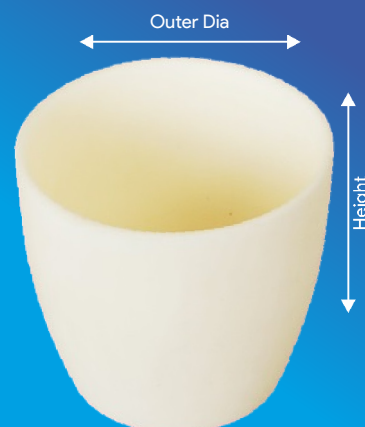
Catlog Number	Capacity (ml)	Size Outside Diameter (mm)	Height (mm)
HACHF-5	5	23	29
HACHF-10	10	29	31
HACHF-20	20	38	35
HACHF-50	50	48	47
HACHF-100	100	58	61
HACHF-250	250	76	93

CONICAL CRUCIBLE

Catlog Number	Capacity (ml)	Size Outside Diameter (mm)	Height (mm)
HACCO-2	2	18	18
HACCO-5	5	27	35
HACCO-10	10	30	29
HACCO-20	20	33	42
HACCO-30	30	48	43
HACCO-40	40	48	41
HACCO-50	50	46	53
HACCO-60	60	54	50
HACCO-80	80	60	50
HACCO-100	100	64	86
HACCO-100A	100	66	56
HACCO-150	150	63	90
HACCO-170	170	80	61
HACCO-200	200	73	94
HACCO-250	250	82	100
HACCO-300	300	91	87
HACCO-500	500	88	128
HACCO-750	750	125	125

Conical Crucible

Made of 99.7%-pure aluminum oxide. Highly resistant to alkalis and other fluxes. Highly refractory and inert in hydrogen and carbonaceous atmospheres. Suitable for glass melting, including borosilicate glass. Limit of use: 1750[degree]C.

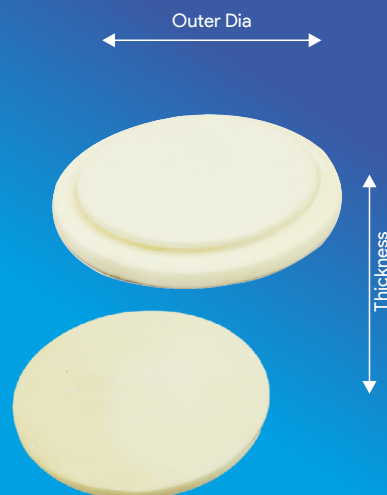


CIRCULAR DISC

Catlog Number	Size OD (mm)	Size ID (mm)	Thickness (mm)	Other Specifications
HACD-16	27	19	3	THICKNESS 3MM
HACD-25	34	25	3	THICKNESS 3MM
HACD-32	44.5	32	3	THICKNESS 3MM
HACD-38	54	42	3	THICKNESS 3MM
HACD-48	56	44	3	THICKNESS 3MM
HACD-58	67	54	3	THICKNESS 3MM
HACD-75	89	72	3	THICKNESS 3MM
HACD-90	96	80	3	THICKNESS 3MM
HACD-100	100	86	3	THICKNESS 3MM
HACD-115	116	102	3	THICKNESS 3MM
HACD-125	128	108	3	THICKNESS 3MM
HACD-150	152	-	3	THICKNESS 3MM

Circular Disc

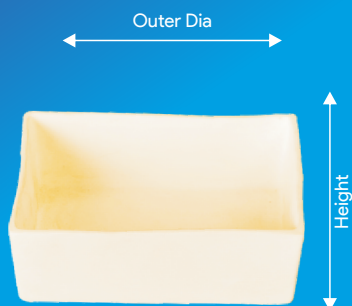
Made of 99.7%-pure aluminum oxide. Highly resistant to alkalis and other fluxes. Highly refractory and inert in hydrogen and carbonaceous atmospheres. Limit of use: 1750[degree]C.



RECTANGULAR TRAY

Rectangular Tray

Made of 99.7%-pure aluminum oxide. Highly resistant to alkalis and other fluxes. Highly refractory and inert in hydrogen and carbonaceous atmospheres. Limit of use: 1750[degree]C.



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

CIRCULAR DISH

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

Circular Dish

Made of 99.7%-pure aluminum oxide. Highly resistant to alkalis and other fluxes. Highly refractory and inert in hydrogen and carbonaceous atmospheres. Limit of use: 1750[degree]C.

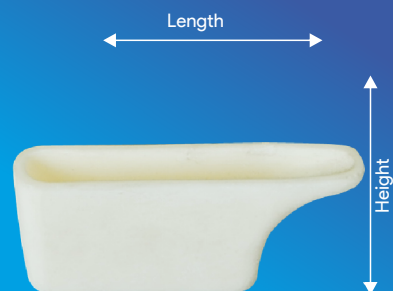


COMBUSTION BOAT

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

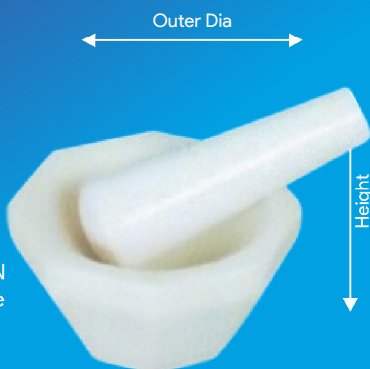
Combustion Boat

Made of 99.7%-pure aluminum oxide. Highly resistant to alkalis and other fluxes. Highly refractory and inert in hydrogen and carbonaceous atmospheres. Limit of use: 1750[degree]C.



Mortar with Pestle (American Design)

Made of 99.7%-pure aluminum oxide. Hardness greater than agate. Impervious to liquids under vacuum. Highly resistant to corrosion by chemicals. Hardness 83 on Rockwell 45N scale. Gives minimum sample contamination.



MORTAR WITH PESTLE (AMERICAN DESIGN)

Catlog Number	Capacity (ml)	Size Top OD (mm)	Size Top ID (mm)	Height (mm)	Pestle Length (mm)
HAMP-1.5	1.5	35	26	18	38
HAMP-7	7	50	38	26	57
HAMP-15	15	65	54	31	65
HAMP-30	30	75	60	37	74
HAMP-80	80	100	86	47	100

MORTAR WITH PESTLE (EUROPEAN DESIGN)

Catlog Number	Capacity (ml)	Size Top OD (mm)	Size Top ID (mm)	Height (mm)	Pestle Length (mm)
HAM-50	25	50	44	27	57
HAM-75	90	75	69	38	115
HAM-100	220	100	92	58	115
HAM-125	450	125	115	70	125
HAM-150	750	150	142	80	150

Mortar with Pestle (European Design)

Made of 99.7%-pure aluminum oxide. Hardness greater than agate. Impervious to liquids under vacuum. Highly resistant to corrosion by chemicals. Hardness 83 on Rockwell 45N scale. Gives minimum sample contamination.

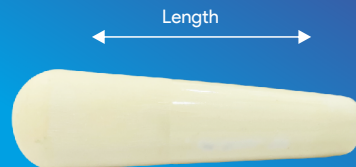


PESTLE (AMERICAN DESIGN)

Catlog Number	Pestle Length (ml)
HAP-38	38
HAP-57	57
HAP-65	65
HAP-74	74
HAP-100	100

Pestle (American Design)

Made of 99.7%-pure aluminum oxide. Hardness greater than agate. Impervious to liquids under vacuum. Highly resistant to corrosion by chemicals. Hardness 83 on Rockwell 45N scale. Gives minimum sample contamination.



Pestle (European Design)

Made of 99.7%-pure aluminum oxide. Hardness greater than agate. Impervious to liquids under vacuum. Highly resistant to corrosion by chemicals. Hardness 83 on Rockwell 45N scale. Gives minimum sample contamination.



PESTLE (EUROPEAN DESIGN)

Catlog Number	Pestle Length (ml)
HAP-125	125
HAP-150	150

Agate Mortar & Pestle

'J' Brand Agate Mortars & Pestles are made of Naturally occurring Agate Stone, which essentially is an Amorphous form of Silica. Aesthetically it is pleasing to the eye and due to its inherent physical characteristics is very hard. The Hardness on the Moh's Scale is 6.5.

'J' Brand Agate Mortars & Pestles are recommended for use in laboratories demanding contamination-free results.

These Agate wares are available from laboratory supply dealers or directly from Silico & Chemico Porcelain Works. Other shapes are available on special order. Other Information regarding Agate ware properties is available upon request.

AGATE MORTAR & PESTLE (REGULAR)

Catlog Number	Size Top OD (mm)	Size Top ID (mm)	Size Height (mm)	Pestle Length (mm)
C-1	25	20	19	25
C-1.5	38	29	25	38
C-2	50	38	28	50
C-2.5	64	50	31	64
C-3	76	63	35	76
C-3.5	89	76	38	89
C-4	100	88	41	100
C-4.5	114	100	43	114
C-5	125	114	51	125
C-6	150	139	65	150

Agate Mortar & Pestle (Regular)

Superior form of naturally occurred Agate with surface hardness of 6.5 at Moh's scale and polished to make suitable for laboratory applications. The shape is in regular form



Agate Mortar & Pestle (Deep)

Superior form of naturally occurred Agate with surface hardness of 6.5 at Moh's scale and polished to make suitable for laboratory applications. The shape is in deep form



AGATE MORTAR & PESTLE (DEEP)

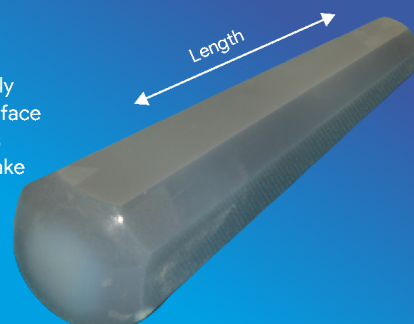
Catlog Number	Size Top OD (mm)	Size Top ID (mm)	Size Height (mm)	Pestle Length (mm)
CD-60	60	50	36	64
CD-70	70	55	42	76
CD-80	80	65	53	89
CD-90	90	70	56	100
CD-100	100	80	61	100
CD-110	110	90	65	114
CD-120	120	100	68	100
CD-130	130	110	72	110

PESTLE (AGATE)

Catlog Number	Pestle Length (ml)
C-109	25
C-110	38
C-111	50
C-112	64
C-113	76
C-114	89
C-115	100
C-116	114
C-117	125
C-118	150

Pestle (Agate)

Superior form of naturally occurred Agate with surface hardness of 6.5 at Moh's scale and polished to make suitable for laboratory applications



65 YEARS

Experience
& Service
to Laboratory



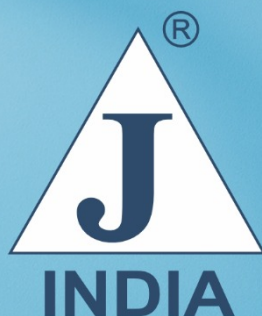
Industrial Wares

- CERAMIC INSULATORS
- CERAMIC HOLDERS
- INDUSTRIAL FILTERS
- PORCELAIN PIPES
- PORCELAIN PIPES
- OTHER INDUSTRIAL ITEMS
- CUSTOMER'S SPECIFIED ARTICLES



66
YEARS

Experience
& Service
to Laboratory



Porcelain,
High Alumina
& Agatewares
for Laboratories,
Hospitals
and Industries



SILICO & CHEMICO PORCELAIN WORKS

New India, Khurja



Silico & Chemico Porcelain Works

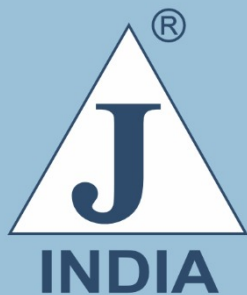
C-5, Industrial Estate, G.T.Road, Khurja - 203131 (U.P.) India

for more enquiry contact us at :

www.silicoandchemico.com
jindia25@gmail.com

9837013160

ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY



“ We also undertake to
Fabricate Porcelain
and High Alumina
Items to your designs
and requirements ”

66
YEARS

Experience
& Service
to Laboratory

