



SILICA WARE



CHEMICAL PROPERTIES

Fused Silica is neutral to all halogens and acids irrespective of temperature or concentration except hydro-fluoric and phosphoric acid. Phosphoric acid affects fused silica only at high temperatures and can be concentrated successfully in silica vessels. For all ordinary purposes they can be used with phosphoric acid. Sulphuric, Nitric and Hydrochloric acids or any mixture of these acids, do not affect Fused Silica even at temperatures upto 1000°C.

Strong alkalis react with fused silica. Cleaning of Silica ware regularly can ensure good service. Salts and basic oxides react at elevated temperatures, particularly above their melting point. The extent of reaction is largely determined by the thermal diffusion of impurities into the fused silica. Alkali metals have the highest diffusivity and are the most damaging.

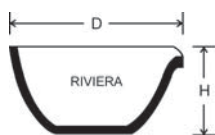
THERMAL PROPERTIES - THERMAL EXPANSION

Mean value of the coefficient of thermal expansion between 0 and 800°C - $5.5 \times 10^{-7}/^{\circ}\text{C}$.

Fused silica is neutral to abrupt temperature changes. Vitreous silica is highly viscous. Viscosity drops uniformly as the temperature rises over softening point.

Average Co-efficient expansion 0° to 800°C $5.5 \times 10^{-7}/^{\circ}\text{C}$

<i>Thermal Conductivity</i>	<i>Temp</i>	<i>CAI</i>
	20°C	$\text{cm}^{-1} \text{Sec}^{-1} \text{ } ^{\circ}\text{C}^{-1}$
		36×10^{-4}
	100°C	38×10^{-4}
	250°C	41×10^{-4}
	500°C	50×10^{-4}
	800°C	57×10^{-4}
	1000°C	65×10^{-4}
<i>Specific heat</i>	<i>Temp°C</i>	<i>Cal/g</i>
	0	0.166
	100	0.200
	500	0.275
	1000	0.290
Softening temp.	1700°C	
Annealing temp.	1150°C	
Working temp.	1900°C to 2000°C	
Operating temp. (Continuous)	1050°C	
Operating temp. (intermittent)	1350°C	

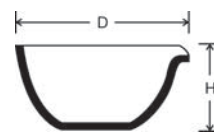


Silica Basin with Spout, Round Form, RIVIERA

Cat No.	Nominal Capacity ml	Diameter (D) mm	Height (H) mm	Qty. Per Pack Pcs
78500 03	20	55	23	10
78500 06	45	75	27	10
78500 09	70	87	33	10
78500 12	85	94	36	10
78500 15	100	100	45	10
78500 18	200	113	47	10
78500 24	400	142	63	10



Silica Basin with Spout, Deep Form, RIVIERA



Cat No.	Nominal Capacity ml	Diameter (D) mm	Height (H) mm	Qty. Per Pack Pcs
78501 03	10	40	18	10
78501 06	15	50	25	10
78501 09	45	60	30	10
78501 12	90	80	45	10
78501 15	170	100	55	10

Silica Basin with Spout, Flat Form, RIVIERA



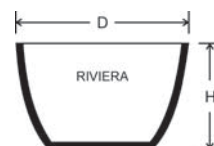
Cat No.	Nominal Capacity ml	Diameter (D) mm	Height (H) mm	Qty. Per Pack Pcs
78502 03	20	69	15	10
78502 06	25	79	15	10
78502 09	75	101	20	10
78502 12	125	131	23	10

Silica Capsules Circular, RIVIERA



Cat No.	Nominal Capacity ml	Diameter (D) mm	Height (H) mm	Qty. Per Pack Pcs
78503 03	10	40	15	10
78503 06	20	48	15	10
78503 09	25	54	15	10

Silica Crucible without Lid, Low Form, RIVIERA

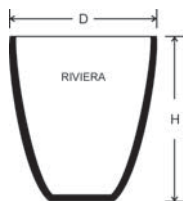


Cat No.	Nominal Capacity ml	Diameter (D) mm	Height (H) mm	Qty. Per Pack Pcs
78504 03	15	41	25	10
78504 06	25	47	28	10
78504 09	50	57	37	10
78504 12	80	67	45	10
78504 15	100	70	48	10
78504 18	150	82	51	10

Silica Lid, Low Form, RIVIERA



Cat No.	Capacity ml	Qty. Per Pack Pcs
78505 03	15	10
78505 06	25	10
78505 09	50	10
78505 12	80	10
78505 15	100	10
78505 18	150	10



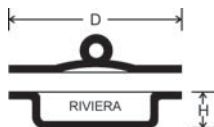
Silica Crucible without Lid, Tall Form, RIVIERA

Cat No.	Capacity ml	Diameter (D) mm	Height (H) mm	Qty. Per Pack Pcs
78506 03	20	35	38	10
78506 06	30	43	39	10
78506 09	50	51	51	10
78506 12	200	73	81	10



Silica Crucible Lid, Tall Form, RIVIERA

Cat No.	Capacity ml	Diameter (D) mm	Height (H) mm	Qty. Per Pack Pcs
78507 03	20	Suit To Crucible	Suit To Crucible	10
78507 06	30	Suit To Crucible	Suit To Crucible	10
78507 09	50	Suit To Crucible	Suit To Crucible	10
78507 12	200	Suit To Crucible	Suit To Crucible	10



Silica Moisture Dish with Lid, RIVIERA

Cat No.	Capacity ml	Diameter (D) mm	Height (H) mm	Qty. Per Pack Pcs
78508 03	8	38	11	10
78508 06	20	54	12	10
78508 09	35	75	12	10

Silica Volatile Matter Crucible with Lid, RIVIERA

Cat No.	Diameter (D) mm	Height (H) mm	Qty. Per Pack Pcs
78509 03	25	38	10
78509 06	Only Lid		10
78509 09	Only Plunger		10

