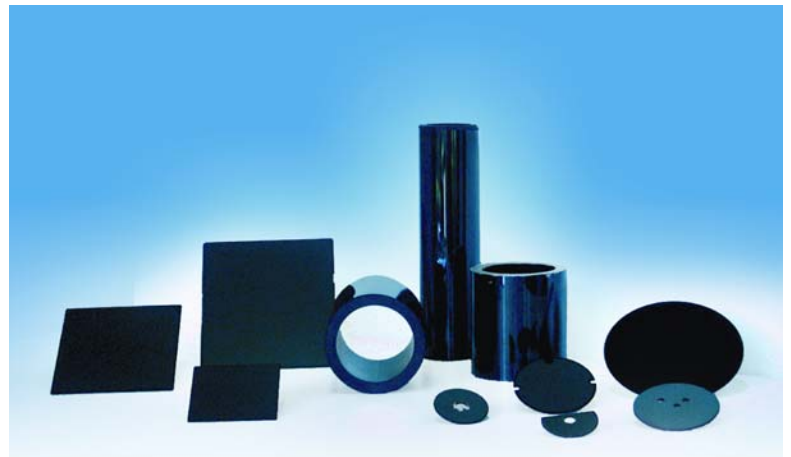


Resistive Glass Products

- Robust
- Single Piece Construction
- Nichrome, Copper and Gold Electrodes Available
- Wide Variety of Shapes and Sizes: Tubes, Sheets, Washers, Custom Shapes
- Uniform Resistance Variable Over 6 Orders of Magnitude*
- Produce Smooth Electric Fields
- Operating Range -20° to 400°C



Typical Mechanical and Electrical Characteristics

BURLE Resistive Glass Products offer a unique capability for analytical instrument designers and manufacturers. These devices are composed of a proprietary lead silicate glass that has been doped to produce a resistive surface. The products can be provided with one or more resistive areas.

The resistivity can be varied over several orders of magnitude in order to optimize current flow and electric field strength. These products are patent pending.

Tube ends are parallel within 0.025mm (.001")

Sheets are flat within 3 fringes

For large (>1mm) ID tubing:

Expansion Coefficient (25–450°C): $78 \times 10^{-7} / ^\circ\text{C}$

Softening Point: 642°C

For 1mm ID tubing:

Expansion Coefficient (25–450°C): $82 \times 10^{-7} / ^\circ\text{C}$

Softening Point: 613°C

Coefficient of Resistivity: -1% per °C

Sheet size up to 102x102mm (4x4")

Resistive washers up to 71mm (2.8") in diameter

Custom shapes available

Mechanical Interfaces: Flanges, Grids and

Meshes are available upon request.

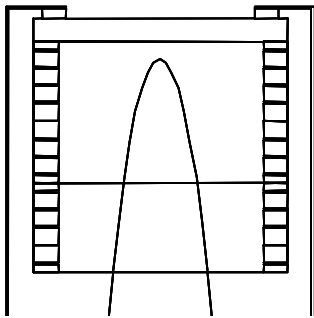
Tube Length (Max.)	Inside Diameter (Min.)	Outside Diameter	Wall Thickness	Out of Round (Max.)	Resistance Range
203.2mm 8.000"	57.00mm 2.244"	72.26mm 2.845"	5.84mm 0.230"	1.60mm 0.063"	10^8 - $10^{11}\Omega$
203.2mm 8.000"	45.65mm 1.797"	63.50mm 2.500"	7.62mm 0.300"	1.60mm 0.063"	10^8 - $10^{11}\Omega$
203.2mm 8.000"	36.83mm 1.450"	47.00mm 1.850"	3.81mm 0.150"	0.74mm 0.029"	10^8 - $10^{11}\Omega$
304.8mm 12.000"	29.97mm 1.180"	41.40mm 1.630"	5.33mm 0.210"	0.74mm 0.029"	10^8 - $10^{11}\Omega$
304.8mm 12.000"	23.50mm 0.925"	31.75mm 1.250"	3.68mm 0.145"	0.48mm 0.019"	10^8 - $10^{11}\Omega$
304.8mm 12.000"	1.00mm 0.039"	6.10mm 0.240"	2.57mm 0.102"	0.076mm 0.003"	10^5 - $10^{11}\Omega$
304.8mm 12.000"	1.00mm 0.039"	3.18mm 0.125"	1.02mm 0.040"	0.076mm 0.003"	10^5 - $10^{11}\Omega$
304.8mm 12.000"	1.00mm 0.039"	2.06mm 0.081"	0.53mm 0.021"	0.076mm 0.003"	10^5 - $10^{11}\Omega$

* 1mm ID tubing only

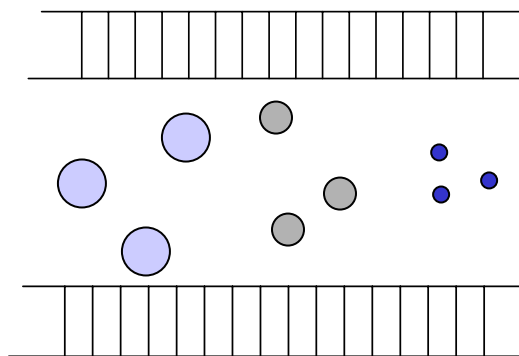


Typical Applications:

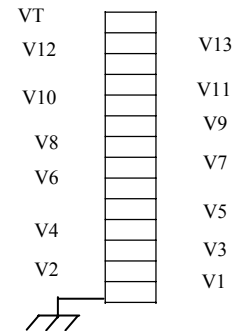
- Ion Guides
- Voltage Dividers
- Conversion Dynodes
- Ion Mirrors
- Reflectron Lenses
- Drift Tubes for Ion Mobility Spectrometers



Reflectron Lens



Ion Guide



Voltage Divider

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