**Tunglass-2**

*Tungsten microelectrodes with glass insulation of extreme durability*

Manufactured using *Kation Scientific's* proprietary method, this glass insulated tungsten microelectrode represents a truly exceptional solution to many drawbacks associated with more traditional metal microelectrodes. The industry standard gold-plated pin on top allows a low-resistance galvanic connection to most headstage probes. The 1.5 mm O.D. borosilicate glass sheathing provides an additional support for the fine tungsten wire and allows a convenient way to handle and to attach this microelectrode to any holder.

Next to the holder section, the glass forms a 40 to 80 µm thick electrically insulating layer sturdily adhering to the lead element tungsten wire for about a length of 35 mm. Finally, the glass insulation tapers onto the tungsten tip, etched to a 5.5° or 2.3° angles, ending in a 3 µm thick durable glass ridge.

**Additional advantages are:**

- True pin-hole free insulation
- Re-usable many times
- Deep tissue penetration
- Selectable tip styles & impedances
- Mating female pin is provided
- Autoclavable to 140 °C

**Order info:**

<table>
<thead>
<tr>
<th>Tip style</th>
<th>Part no.</th>
<th>Nominal impedance @ 1KHz (actual range), MΩ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>W2011S</td>
<td>1 (0.8 to 1.2) 1.5 (1.1 to 1.8) 2 (1.9 to 2.4)</td>
</tr>
<tr>
<td>Fine</td>
<td>W2011F</td>
<td>2 (1.6 to 3.0) 4 (3.1 to 5.0) 6 (5.1 to 7.0)</td>
</tr>
</tbody>
</table>

Other impedance values on request. Sold in boxes of 7 or 20 pieces.

Order example:

W2011S-1.5-20, a box of 20 count standard standard tip tungsten microelectrodes of about 1.5 MΩ impedances

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**Tunglass-2 datasheet**

Glass-insulated tungsten microelectrode

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