**FEATURES**

Shrink Ratio: 2:1

Radiation Cross-Linked Acrylated Olefin
- Proprietary formulation — virgin polymer with no additives
- Non toxic

100% factory double tested for superior insulation integrity, reliability and safety

Unique heat sealable and adhesion properties without adhesives
- Tubing tightly fuses to the substrate and prevents slippage
- Moisture is blocked from penetrating between the tubing and the substrate
- Adheres to metals, glass and selected plastics

Superior insulation integrity and reliability protects against insulation failure
- High Dielectric Strength: 1800–2000 vpm

Exceptionally strong and durable
- Superior cut-through, puncture and abrasion resistance
- Protects against damage from sharp instruments

Excellent resistance to a wide range of chemicals

Numerous sterilization options — can be repeatedly sterilized by:
- E-Beam and Gamma Radiation
- Autoclave
- ETO
- Steris Process-Paracetic Acid
- Hydrogen Peroxide Gas
- Gluteraldehyde

Alcohol wiped and packaged as cut pieces, in coils or on plastic spools, and double plastic bagged in a clean room environment

Complete lot traceability

**SPECIFICATIONS**

Meets the most stringent biocompatible specifications:
- USP Class VI Compliant
- ISO-10993-5 Certified
- USFDA Compliant
- RoHS Compliant

USP Class VI and ISO 10993-5 Cytotoxicity documentation provided as post process certification when requested

Insutab is ISO-9001:2015 Certified

Insutab’s tubing products are made in the USA
**TECHNICAL DATA**

Shrink Ratio: 2:1  
NOTE: HS-714 can be customized to your specifications for expanded and recovered diameters, wall thicknesses and shrink ratios  
Minimum Recommended Shrink Temperature: 121°C (250°F)  
Maximum Recommended Shrink Temperature: 149°C (300°F)  
Operating Temperature Range: -55°C to 121°C (-67°F to 250°F)  
Longitudinal Shrinkage: +5/-5%

Physical / Electrical Properties:  
Specific Gravity: 0.934  
Durometer: Shore D 53  
Tensile Strength: 3200 / 3600 psi  
Elongation: 500 / 600%  
Secant Modulus: (2%) 1.2 X 10^4 psi  
Heat Shock: 168 hours @ 150° C No dripping or cracking  
Volume Resistivity: @ 500 volts >10^16  
Dielectric Strength: 1,800 / 2,000 vpm  
Dielectric Constant @ 1 MHz: 2.0 / 2.2  
Dissipation Factor @ 1 MHz: 0.008

Chemical Resistance:  
Resists a wide range of chemicals including: Hexachlorophene (pHisoHex), saline solution, povidone-iodine (Betadine), benzalkonium (Zephiran), alcohol  
Resists moisture, UV light and fungus

**SPECIFICATIONS**

Meets the most stringent bio-compatible specifications:  
- USP Class VI Compliant  
- ISO-10993-5 Certified  
- USFDA Compliant  
- RoHS Compliant  

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Insultab’s tubing products are made in the USA

**Autoclave Cycle Test:**  
20 cycles @ 121°C 15 psi for 15 min. with fast dry cycle, followed by test for:

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>TYPICAL VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume Resistivity @ 500 volts</td>
<td>ASTM D 257</td>
<td>No change from original</td>
</tr>
<tr>
<td>Dielectric Strength in air @ 500 kv/min rise</td>
<td>ASTM D 149</td>
<td>No change from original</td>
</tr>
<tr>
<td>Dielectric Constant @ 1 MHz</td>
<td>ASTM D 150</td>
<td>No change from original</td>
</tr>
<tr>
<td>Dissipation Factor @ 1 MHz</td>
<td>ASTM D 150</td>
<td>No change from original</td>
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</tbody>
</table>

Notice to User: It is imperative that manufacturers and end-users understand that the electro-surgical instruments should be placed separately, without overlay, on autoclave trays. Potential damage caused by overlay in the autoclave will significantly reduce this and any other dielectric insulator’s ability to pass the 20 cycles of autoclave required by the AAMI.

All statements and recommendations are based on technical data that INSULTAB believes to be true and reliable. It is the responsibility of the user to determine functionality and suitability. If you have any questions on the use or handling of this product, please contact us at 800-468-4822.

**SIZES & COLORS**

Standard Dimensions — HS-714 can be customized

<table>
<thead>
<tr>
<th>SIZE</th>
<th>Expanded I.D. Minimum</th>
<th>Expanded I.D. Maximum</th>
<th>Recovered Wall Nominal</th>
<th>Standard Packaging (per Box)</th>
<th>Product is Supplied in Coils or on Plastic Spools</th>
<th>Total Ft./Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/32</td>
<td>.093</td>
<td>.236</td>
<td>.046</td>
<td>.17</td>
<td>.020 / .051</td>
<td>1,000' / 2,000'</td>
</tr>
<tr>
<td>1/8</td>
<td>.125</td>
<td>.318</td>
<td>.062</td>
<td>.158</td>
<td>.020 / .051</td>
<td>1,000' / 2,000'</td>
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<tr>
<td>3/16</td>
<td>.187</td>
<td>.475</td>
<td>.093</td>
<td>.236</td>
<td>.020 / .051</td>
<td>1,000' / 2,000'</td>
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<tr>
<td>1/4</td>
<td>.250</td>
<td>.635</td>
<td>.125</td>
<td>.318</td>
<td>.025 / .064</td>
<td>500' / 1,000'</td>
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<tr>
<td>3/8</td>
<td>.375</td>
<td>9.53</td>
<td>.187</td>
<td>4.75</td>
<td>.025 / .064</td>
<td>200' / 600'</td>
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<tr>
<td>1/2</td>
<td>.500</td>
<td>12.70</td>
<td>.250</td>
<td>6.35</td>
<td>.025 / .064</td>
<td>200' / 600'</td>
</tr>
</tbody>
</table>

Standard Colors: Black, White, Blue, Clear

Custom colors are also available

All information presented is believed to be reliable and is offered only as a guide to product selection. As each application is unique, Insultab can make no warranties as to the suitability of any products for a particular use. Specifications are subject to change.