Ultrahigh-Purity PFA Tubing
PFA4 and PFA9D

Features
- Available in ultrahigh-purity and advanced (fluorosurfactant resistant) ultrahigh-purity grades
- 100% virgin material
- PFA has high thermal stability
- Meets SEMI F57-0301 specifications
- Flammability: UL 94 rated V-O (self-extinguishing)

Pressure-Temperature Ratings

<table>
<thead>
<tr>
<th>Fractional Tubing</th>
<th>Temperature °F (°C)</th>
<th>Working Pressure psig (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tubing Size, in.</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>75 (23)</td>
<td>300</td>
<td>275</td>
</tr>
<tr>
<td>350 (176)</td>
<td>60</td>
<td>50</td>
</tr>
</tbody>
</table>

Metric Tubing

<table>
<thead>
<tr>
<th>Tubing Size, mm</th>
<th>Temperature °C (°F)</th>
<th>Working Pressure bar (psig)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube OD in.</td>
<td>Tube ID in.</td>
<td>Nominal Wall Thickness in.</td>
</tr>
<tr>
<td>1/8</td>
<td>0.06</td>
<td>0.030</td>
</tr>
<tr>
<td>1/4</td>
<td>0.16</td>
<td>0.047</td>
</tr>
<tr>
<td>3/8</td>
<td>0.25</td>
<td>0.063</td>
</tr>
<tr>
<td>1/2</td>
<td>0.38</td>
<td></td>
</tr>
<tr>
<td>3/4</td>
<td>0.63</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0.88</td>
<td></td>
</tr>
<tr>
<td>1 1/4</td>
<td>1.10</td>
<td>0.075</td>
</tr>
</tbody>
</table>

Marking

Tubing is laser etched with the tubing size, material designator, and lot traceability number.

Cleaning and Packaging

Ultrahigh-purity fluoropolymer tubing is packaged and shipped with the ends capped in accordance with SEMI F57-0301.
Ordering Information

Build an ultrahigh-purity fluoropolymer tubing ordering number by combining the designators as shown below.

- **Material and Grade**
  - **PFA4** = Ultrahigh-purity perfluoroalkoxy (PFA)
  - **PFA9D** = PFA 950HP

- **Type**
  - Standard tubing

- **Tubing Size**
  - **Fractional**
    - 2-030 = 1/8 in.
    - 4-047 = 1/4 in. (0.047 in. wall)
    - 4-063 = 1/4 in. (0.063 in. wall)
    - 6-063 = 3/8 in.
    - 8-063 = 1/2 in.
    - 12-063 = 3/4 in.
    - 16-063 = 1 in.
    - 20-075 = 1 1/4 in.
  - **Metric**
    - 4M-1.0M = 4 mm
    - 6M-1.0M = 6 mm
    - 8M-1.0M = 8 mm
    - 10M-1.0M = 10 mm

- **Package Length**
  - **Fractional**
    - 50 = 50 ft coil
    - 100 = 100 ft coil
    - 500 = 500 ft spool
    - 1000 = 1000 ft spool
  - **Metric**
    - 15M = 15 m coil
    - 30M = 30 m coil
    - 150M = 150 m coil
    - 300M = 300 m spool

- **Purity**
  - Ultrahigh-purity with SEMI F57-0301 packaging

### Accessories

**Tube Cutter**

A tube cutter for plastic tubing up to 1 in. outside diameter is available.

Ordering number: **MS-HC-SC-1A**

Replacement blade ordering number: **MS-HC-SC-1A-BLD**

### Ultrahigh-Purity Fluoropolymer Products

The Swagelok family of UHP fluoropolymer products includes pneumatically actuated and quarter-turn manual radial diaphragm-sealed shutoff valves, O-ring–free poppet check valves, and fine thread flare fittings.

See these Swagelok catalogs for more information:

- **Ultrahigh-Purity Fluoropolymer Diaphragm Valves—DRP Series** catalog, MS-02-171
- **Ultrahigh-Purity Fluoropolymer O-Ring–Free Poppet Check Valves—CHP Series** catalog, MS-02-320
- **High-Purity PFA Fine Thread Flare Fittings** catalog, MS-02-195
**Introduction**

Since 1947, Swagelok has designed, developed, and manufactured high-quality, general-purpose and specialty fluid system products to meet the evolving needs of global industries. Our focus is on understanding our customers’ needs, finding timely solutions, and adding value with our products and services.

We are pleased to provide this global edition of the book-bound *Swagelok Product Catalog*, which compiles more than 100 separate product catalogs, technical bulletins, and reference documents into one convenient, easy-to-use volume. Each product catalog is up to date at the time of printing, with its revision number shown on the last page of the individual catalog. Subsequent revisions will supersede the printed version and will be posted on the Swagelok website and in the Swagelok electronic Desktop Technical Reference (eDTR) tool.

For more information, visit your Swagelok website or contact your authorized Swagelok sales and service representative.

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**Warranty Information**

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.

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**Safe Product Selection**

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

**Caution:** Do not mix or interchange parts with those of other manufacturers.