



Versilon® HP PFA 400 UC

High-Purity PFA Ultra Clean Tubing

Versilon HP PFA 400 UC is specifically designed and produced to be used with the harshest chemicals while offering the greatest level of purity, matching industry standards such as SEMI C90. The specific choice of raw material and process selected for its production yields tubing with the lowest total metal extractables and at the same time offers the least surface contamination.

Versilon HP PFA 400 UC tubing is ideal for use in the semiconductor industry specifically striving for the smallest printing node and highest yield.



Features and Benefits

- SEMI C90 compliant
- Non-destructive/non-contaminating laser scribing for positive identification of size, material and 100% lot traceability
- 100% virgin high-purity ultra clean PFA resin
 - Specific material grade available
- Custom laser scribing available (for identifying chemicals/process media, tool number, OEM's name/private label, etc.)
- Tube ends capped to prevent I.D. contamination
- "Clean-Pak" packaging available

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Versilon HP PFA 400 UC

A high-purity, all-virgin, thermoplastic fluoropolymer tubing with the ability to withstand a large range of temperatures from -60°F (-50°C) up to +450°F (232°C).

| Part Number | O.D. in (mm) | I.D. in (mm) | Wall Thickness in (mm) | Tolerance in (mm) | Min. Bend Radius* in (mm) |
|----------------------|-------------------|-------------------|---------------------------|----------------------|------------------------------|
| Standard Wall | | | | | |
| TSFP5-125063.HP UC | 1/8" (3.17 mm) | 1/16" (1.59 mm) | 0.030" (0.76 mm) | +/- .004" (0.1 mm) | 0.37" (9.30 mm) |
| TSFP5-250156.HP UC | 1/4" (6.35 mm) | 5/32" (3.97 mm) | 0.047" (1.19 mm) | +/- .004" (0.1 mm) | 1.20" (30.46 mm) |
| TSFP5-375250.HP UC | 3/8" (9.52 mm) | 1/4" (6.35 mm) | 0.062" (1.57 mm) | +/- .005" (0.12 mm) | 2.41" (61.10 mm) |
| TSFP5-500375.HP UC | 1/2" (12.7 mm) | 3/8" (9.52 mm) | 0.062" (1.57 mm) | +/- .005" (0.12 mm) | 3.73" (94.84 mm) |
| TSFP5-750625.HP UC | 3/4" (19.05 mm) | 5/8" (15.87 mm) | 0.062" (1.57 mm) | +/- .005" (0.12 mm) | 6.78" (172.25 mm) |
| TSFP5-100875.HP UC | 1" (25.4 mm) | 7/8" (22.22 mm) | 0.062" (1.57 mm) | +/- .006" (0.15 mm) | 10.23" (259.93 mm) |
| TSFP5-125110.HP UC | 1-1/4" (31.75 mm) | 1.1" (27.94 mm) | 0.072" (1.83 mm) | +/- .008" (0.20 mm) | 14.99" (380.68 mm) |
| TCFHP-1575086 UC | 1.575" (40 mm) | 1.403" (35.64 mm) | 0.086" (2.18 mm) | +/- .008" (0.20 mm) | 21.83" (554.39 mm) |
| Heavy Wall | | | | | |
| TSFP5-250125.HP UC | 1/4" (6.35 mm) | 1/8" (3.17 mm) | 0.062" (1.57 mm) | +/- .005" (0.12 mm) | 1.25" (31.86 mm) |
| TSFP5-750093.HP UC | 3/4" (19.05 mm) | 0.564" (14.33 mm) | 0.093" (2.36 mm) | +/- .005" (0.12 mm) | 16" (406.4 mm) |
| TSFP5-1000093.HP UC | 1" (25.4 mm) | 0.814" (20.68 mm) | 0.093" (2.36 mm) | +/- .006" (0.15 mm) | 21" (533.4 mm) |
| TSFP5-1250093.HP UC | 1-1/4" (31.75 mm) | 1.064" (27.03 mm) | 0.093" (2.36 mm) | +/- .008" (0.20 mm) | 27" (685.8 mm) |
| TSFP5-1500093.HP UC | 1-1/2" (38.1 mm) | 1.314" (33.38 mm) | 0.093" (2.36 mm) | +/- .008" (0.20 mm) | 32" (812.8 mm) |
| Thin Wall | | | | | |
| TSFP5-250188.HP UC | 1/4" (6.35 mm) | 3/16" (4.76 mm) | 0.030" (0.76 mm) | +/- .003" (0.08 mm) | 1.09" (27.69 mm) |
| TSFP5-375313.HP UC | 3/8" (9.52 mm) | 5/16" (7.94 mm) | 0.030" (0.76 mm) | +/- .003" (0.08 mm) | 1.98" (50.30 mm) |
| TSFP5-500438.HP UC | 1/2" (12.7 mm) | 7/16" (11.11 mm) | 0.030" (0.76 mm) | +/- .003" (0.08 mm) | 2.99" (75.90 mm) |
| TSFP5-750688.HP UC | 3/4" (19.05 mm) | 11/16" (17.46 mm) | 0.030" (0.76 mm) | +/- .003" (0.08 mm) | 5.27" (133.97 mm) |

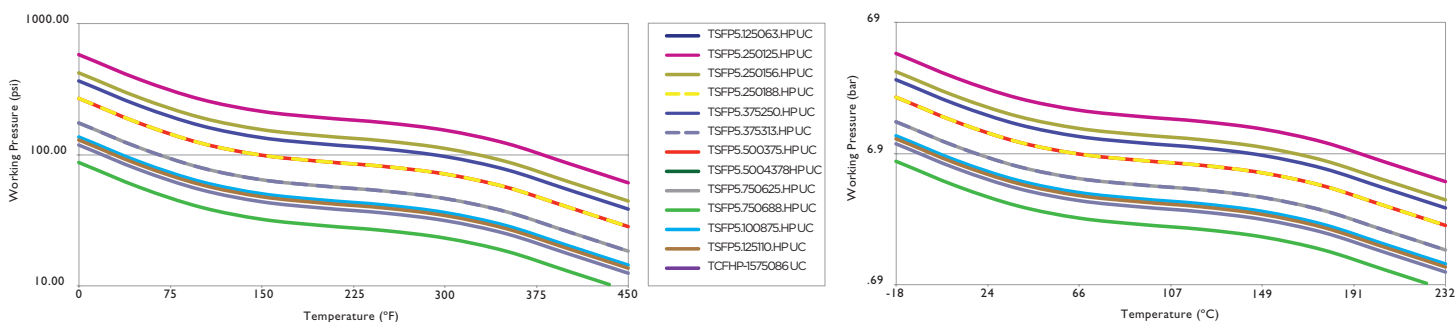
* Values are obtained either by testing or calculation. **Contact us for more detail.**

Customization

Special order sizes, thicknesses and lengths are available; contact the factory for items not listed above. Specific grades of raw materials may be required (for example Teflon™ PFA 450HP LM, Teflon™ PFA 451HP or Daikin 231 SH); contact the factory for the related PN. Cleanroom-compliant plastic reels are available upon request. Coils are available based on length and are shipped in cleanroom-compliant double bags.

Specifications

Versilon® HP PFA 400 UC - Working Pressures



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NOTE: The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

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