

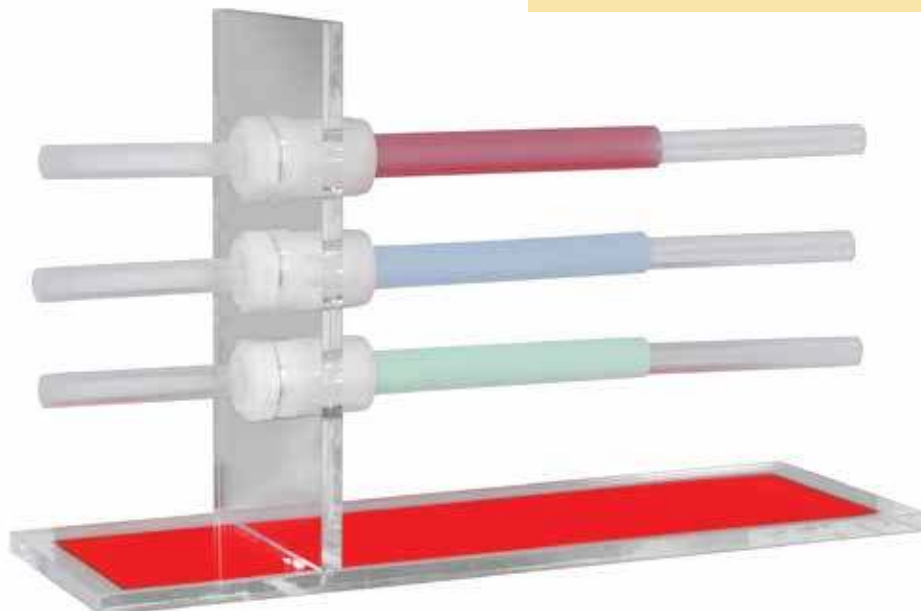
ULTRA HIGH PURITY TUBING AND PIPE

Dual Containment Tubing for Chemical safety

Niche dual containment tubing is used to provide additional security against leaks in applications in which hazardous liquids are being transported. The product consists of two tubes, one inside the other, and they are referred to as the “Primary Tube” (inside tube) and “Secondary Tube” (outside tube). The liquid is transported inside the primary tube, and if that tube fails for any reason, the liquid is contained within the secondary tube. Niche’s flexible secondary tube allows installation without multiple pipe unions or heat bending. The tubes are delivered in the assembled state, eliminating the need to pull the primary tube through the secondary tube on-site.

Key Properties

- Low installation cost – 500’ runs, no connectors, tubes pre-assembled
- UHP primary containment for universal chemical resistance and ultra-high purity
- PFA or FEP secondary containment for flexibility and second level of protection
- Completely non-flammable (UL94)
- Excellent wear and abrasion resistance
- Continuous use temperature up to 400°F
- Laser identification marking on both primary and secondary tubes available upon request
- Tinted secondary available for process/chemical identification for error proofing and safe



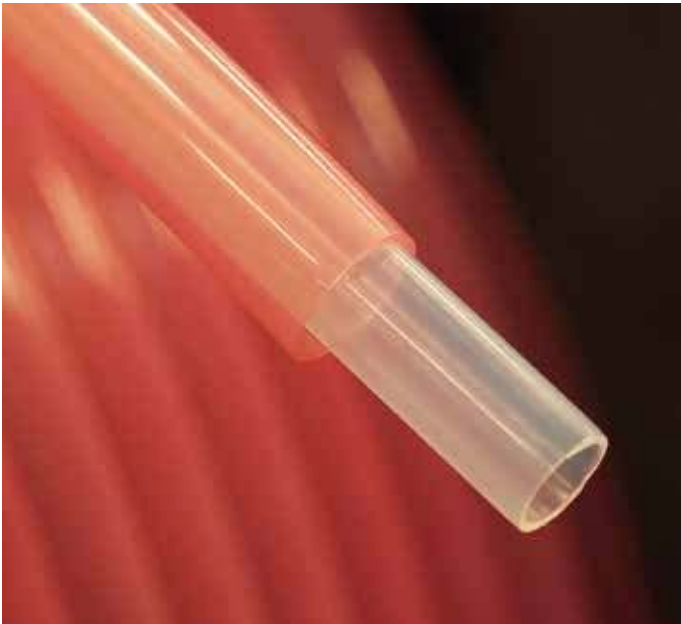
Standard Combinations of Primary and Secondary Tubes (Custom Sizes Available):

FEP Secondary Containment OD (in.)	ID/OD Tolerance (in.)	Wall Thickness (in.)	PFA Primary Containment OD (in.)	ID/OD Tolerance (in.)	Wall Thickness (in.)	Minimum Bend Radius (in.)
1.900	0.020	0.095 ± 0.010	1.500	0.010	0.096 ± 0.008	60
1.250	0.010	0.075 ± 0.010	1.000	0.010	0.062 ± 0.008	30
1.000	0.010	0.062 ± 0.008	0.750	0.008	0.062 ± 0.008	12
1.000	0.010	0.062 ± 0.008	0.500	0.006	0.062 ± 0.008	12
0.750	0.008	0.062 ± 0.008	0.500	0.006	0.062 ± 0.008	9
0.500	0.006	0.062 ± 0.008	0.250	0.005	0.062 ± 0.008	3

Packaging and Handling

Niche dual containment tubing is produced and packaged under strict standards of cleanliness, with capped ends and tubing double bagged and sealed in plastic for clean storage. Niche dual containment tubing can also be supplied on plastic spools, over-wrapped with plastic for added protection.

Color-Coded Secondary Tubes Available for Fluid Identification



Available in clear and custom colors

Niche
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Fluoropolymer resins are generally considered inert to most chemicals. Under certain conditions of pressure and temperature, or combinations of chemicals, fluoropolymer tubing should not be used. Please contact Niche for discussion of your specific process to be certain that our products are appropriate for your intended use.

Adequate ventilation should be used where fluoropolymers are heated during tube repairs. Flu-like symptoms occur from exposure to vapors evolved from fluoropolymers at very high temperatures, up to 800F or from smoking materials that contain particles of fluoropolymers. Symptoms pass within 48 hours and are only adverse effects observed in humans to date. Unheated fluoropolymers are essentially inert and are nonirritating to the skin.

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