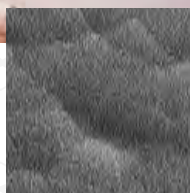


CHEMFLUOR® 367 Scientific Grade Tubing



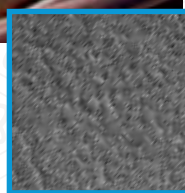
Chemfluor® 367 tubing clearly exhibits superior surface smoothness when compared to tubings made from standard or high-purity PFA resins.



Chemfluor® Tubing
Made from a
High-Purity PFA Resin
Avg. Cell Size - 30 microns



Chemfluor® Tubing
Made from Standard
PFA Resin
Avg. Cell Size - 20 microns



Chemfluor® 367 Tubing
Avg. Cell Size - 5 microns

Lets You Maintain Fluid Integrity

More and more manufacturers are realizing the importance of maintaining the integrity of the chemicals used in their production processes, and are using chemically inert fluoropolymer tubings to achieve the required purity levels. Chemfluor® 367 Scientific Grade Tubing not only maintains fluid integrity, but outperforms tubings made from standard or high-purity PFA resins in many significant ways.

In terms of surface smoothness, Chemfluor® 367 is up to six times smoother, which translates to less cross-contamination, greater product yields and easier-to-clean systems.

In extraction tests — in which several different fluoropolymer tubings were filled separately with deionized water and acid — Chemfluor® 367 had one of the lowest parts-per-billion counts on trace metals (see “Comparative Total Trace Metal Extractables” chart on the back of this page).

And as far as visual clarity is concerned, Chemfluor® 367 tubing is clearer than virtually all other fluoropolymers. Coupled with its chemical inertness, this clarity makes Chemfluor® 367 ideally suited for easy identification of just about any chemical.

Chemfluor® 367 tubing meets FDA 21 CFR 177.1550 criteria and is applicable for food contact applications.

Engineered for higher-purity, superior surface smoothness and clarity without compromising the properties of standard fluoropolymers

Features/Benefits

- Vastly superior surface smoothness compared to other fluoropolymer tubings
- Very low extractables with deionized water and acids
- Superior clarity versus other fluoropolymer tubings
- Resistant to virtually all commonly used chemicals
- Excellent mechanical properties
- Meets FDA criteria

Typical Applications

- Pharmaceutical
- Biotechnology
- Food and beverage
- Environmental
- Semiconductor processing
- Laboratory
- Chemical processing
- General industrial
- Autoanalyzer
- Nuclear

CHEMFLUOR® 367 Manufactured Sizes and Pressures

Saint-Gobain Part Number**	I.D. (inches)	O.D. (inches)	Wall Thickness (inches)	Length (feet)	Max. Working Pressure* at 73°F (psi)	Max. Working Pressure* at 212°F (psi)	Max. Working Pressure* at 400°F (psi)	Min. Bend Radius (inches)
TSC367-0125-031-50	1/16	1/8	1/32	50	379	165	87	1/2
TSC367-0250-062-50	1/8	1/4	1/16	50	383	167	88	1/2
TSC367-0250-047-50	5/32	1/4	3/32	50	266	116	61	3/4
TSC367-0250-031-50	3/16	1/4	1/32	50	163	71	37	1
TSC367-0312-031-50	1/4	5/16	1/32	50	129	56	29	1-3/4
TSC367-0375-062-50	1/4	3/8	1/16	50	230	100	53	1
TSC367-0500-062-50	3/8	1/2	1/16	50	164	71	38	2

Custom sizes and lengths available upon request. Metric sizes available. Available in long continuous lengths.

*Safety factor of 4 to 1 ratio of burst pressure to working pressure ASTM D1599.

**Additional lengths available upon request.

CHEMFLUOR® 367 Typical Physical Properties

Property	ASTM Method	Value
Surface Smoothness, microns (based on 1/4" x 3/8" tubing)	—	1.7
Durometer Hardness, Shore D, 1 Sec	D2240	58
Color	—	Clear
Maximum Recommended Operating Temperature °F (°C)	—	450 (232)
Low Temperature Embrittlement, °F (°C)	—	-320 (-196)
Specific Gravity	D792	2.15
Water absorption, %	D570	<0.03
UL Flammability Test	UL94	V-0
Dielectric Strength, V/mil (kV/mm)	D149	900-1,000 (35-40)
Tensile Strength, psi (MPa)	D1708	3,750 (26)
Elongation, @ 73°F, %	D1708	300
Melting Point, °F (°C)	D3307	536-554 (280-290)
Haze, %	—	0.83
UV Transmission, % @ 254 nm (0.008 inch thickness)	D-1003	89
Refractive Index	D-542	1.34
Flexural Modulus, psi (MPa) @ 73°F	D-790	67,000 (462)
Coefficient of Thermal Expansion, in./in./°F	D-696	7 x 10 ⁻⁵ to 11 x 10 ⁻⁵

CHEMFLUOR® 367 TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL

CHEMFLUOR® is a Saint-Gobain Performance Plastics registered trademark.

Saint-Gobain Performance Plastics

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IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics tubing for all intended uses. Laboratory and clinical tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of tubing in any particular application.

For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from defects in materials and workmanship. Our only obligation will be to replace any portion proving defective or at our option to refund the purchase price thereof. User assumes all other risk, if any, including the risk of injury, loss or damage, direct or consequential, arising out of the use, misuse or inability to use this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized.

Saint-Gobain Performance Plastics Corporation assumes no obligations or liability for any advice furnished by it, or for results obtained with respect to those products. All such advice is given and accepted at the buyer's risk.

Comparative Surface Smoothness Characteristics

Tubing Type	RMS (microns)	Variability: Peak-to-Valley (microns)
Chemfluor® 367	1.678	1.216
Chemfluor® PFA Made from High-Purity PFA Resin	10.917	8.650
Chemfluor Standard PFA	13.942	10.721

Comparative Total Trace Metal Extractables DI and Nitric Acid Extraction

