

Uses for FEP TUBING

FEP (Fluorinated Ethylene Propylene) is a type of fluoropolymer that was originally designed to improve upon the capabilities of PTFE, the original fluoropolymer. FEP tubing is known for its higher working pressure, extrusion into long continuous lengths, low dielectric constant, and high chemical resistance. With such diverse properties, FEP is widely sought by a number of industries.

1. AEROSPACE



Maintenance of Properties

The aerospace industry relies on engineered fluoropolymer lining, tubing, and fabricated products for their ability to resist damage from aggressive chemical fuels and withstand wide variations in temperature. FEP is also used to protect component molds during the curing process.

2. FOOD & BEVERAGE



Sterile Surfaces

FEP's ability to provide a sterile, nonstick surface in long extractions of tubing, as well as its low shrink temperature, make it an ideal choice for meeting the high safety standards of the food & beverage processing industry.

3. WATER TREATMENT



No Rust or Contamination

As a translucent, coilable material, FEP tubing is ideal for water purification processes, particularly for UV water treatment (given that FEP is an excellent UV transmitter). FEP's high melt temperature also allows for hot sterilizing water to easily pass through a purification system without damaging tubing.

4. BIOPHARMACEUTICALS



High Fluid Integrity

Biopharmaceutical applications depend on the assurance of exceptional purity when completing processes. FEP tubing's high chemical inertness, inability to absorb materials, and full sterilization capacity make it a top choice for diagnostic equipment, sterile filling, cell transport, and laboratory use.

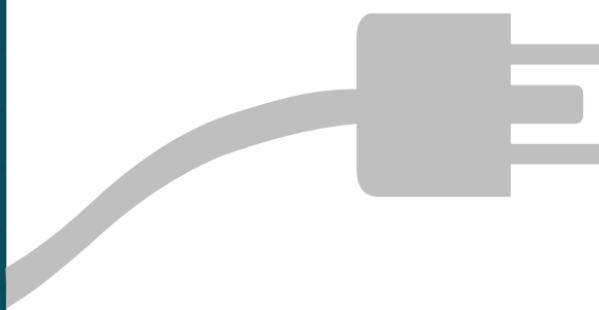
5. ENVIRONMENTAL



Non-Leaching Properties

The environmental industry relies on high-grade sampling equipment to test the contamination of air, soil, and water. FEP's non-leaching property ensures that sample contents are not altered from collection to testing.

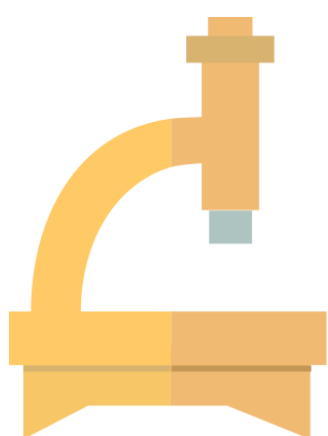
6. ELECTRICAL



High Electrical Breakdown Voltage

FEP's low dielectric constant and high electrical breakdown voltage have made it a popular choice for insulating electrical components like coaxial cables and computer wires. FEP is also smaller in diameter than other alternatives, saving valuable space in electrical applications.

7. ADDITIONAL INDUSTRIES



Exceptional Versatility

FEP is also used in industries that include medicine, science research, heavy industry, and the automotive industry, among others. Any industry that uses PTFE tubing may turn to FEP tubing for higher cost efficiency.

FEP TUBING FROM FLUOROTHERM

FLUOROTHERM™

For over 40 years, Fluorotherm has been a leader in fluoropolymer production. Our FEP tubing is manufactured to the highest of standards, and our team of experts is available to discuss how FEP tubing can meet your specific needs. Visit us at www.fluorotherm.com.