



Comprehensive PFAS testing for compliance

Targeted PFAS | TOF | TF | And more

PFAS testing for compliance

Eurofins Sustainability Services offers a range of services to support footwear and apparel industries in achieving PFAS compliance. From sophisticated methods to detect total or targeted PFAS content to supply chain services and training – we can help you overcome the challenge of PFAS compliance.



Navigating the complexities of PFAS

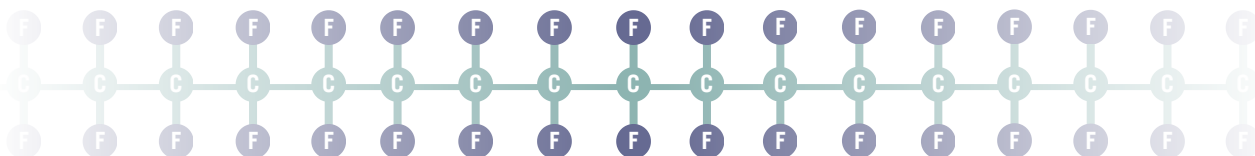
PFAS are in the spotlight because they are persistent and have associated health concerns. Legislation, NGO activity, and industry and consumer awareness are resulting in widespread control of PFAS in consumer products, including total bans in some industries.

Testing for PFAS is complex as there are over 12,000 substances that are categorised as PFAS. There are increasingly stringent regulations along with a variety of test methods.

How can any testing cover all PFAS substances while being both reliable and cost-effective?

The role of chemistry in PFAS testing

We understand the unpracticality of testing for every PFAS substance, so Eurofins Sustainability Services uses a proxy or indicator of PFAS to measure their presence in a product. We use fluorine as that proxy since the chemical structure of all PFAS includes it. It is also important to recognise that the fluorine in PFAS is strictly organic (as opposed to inorganic). For this reason, Eurofins Sustainability Services developed an innovative method to evaluate Total Organic Fluorine (TOF).



Our PFAS testing services

Total Fluorine (TF) testing

- Measures Total Fluorine in a sample, including Organic and Inorganic Fluorine
- Indicates whether any of the 12,000+ PFAS substances are present in a sample, with the possibility of overestimated results since it detects both types of Fluorine
- Recognised standards have been developed, such as EN 14582:2016 and ASTM D7359:2018
- Uses Combustion Ion Chromatography (C-IC) to quantify the total amount of Fluorine

$$\text{Total Organic Fluorine} = \text{Total Fluorine (TF)} - \text{Total Inorganic Fluorine (TIF)}$$

Total Organic Fluorine (TOF) testing

- Measures only the presence of Organic Fluorine in a sample
- Accurately indicates whether any 12,000+ PFAS substances are present, without overestimating
- Uses Combustion Ion Chromatography (C-IC) to quantify the total amount of Organic Fluorine

Targeted PFAS testing

- The most widely used method currently
- Used to test for the presence of a set of specific PFAS substances that are banned
- Can be used in response to bans on specific PFAS substances
- Uses reference standard and chromatography (liquid or gas)
- Can detect PFAS at low concentrations (low LOQ)

Test	Method	Detection limit (mg/kg)	Instrumentation
TF	ASTM D7359:2023	10 mg/kg	CIC
TIF/TOF	Eurofins in-house method	10 mg/kg	Selective F ion electrode
PFAS target substances	EN17681-1:2022	5 ppb	LCMSMS/GCMS
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Additional services

- PFAS supply chain risk management
- PFAS training and awareness
- Chem-ST™ Chemical Smart Testing: Proprietary method using ISO testing equivalents and CPSC test methods to test for all key hazardous chemical substances, including PFAS – giving you full visibility into your supply chain



Is our PFAS testing right for you?

Eurofins Sustainability Services' comprehensive PFAS testing supports businesses in their management of PFAS by providing a solution for global PFAS compliance, using the best available technologies, providing the lowest detection limits, and offering testing from global laboratories.



Scan to learn more
about our PFAS
testing services



Why choose Eurofins Sustainability Services?

- Responsive support and advice from our subject matter experts
- Services led by global chemistry team
- Cost-effective and quick turnaround times
- Responsive real-time technical support



Contact us today

If you are interested in learning more about how you can use Eurofins Sustainability Services' PFAS testing to achieve regulatory compliance, scan the QR code to contact us. We will be your partner to innovate your PFAS testing and effectively manage PFAS in your supply chain.

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