



# SGS Per- and Polyfluoroalkyl Substances (PFAS) Test Services

## MEET US, EU AND OTHER MARKET PFAS REQUIREMENTS

PFAS are substances, which are commonly added to many consumer products due to their excellent water and oil-repellent properties. In recent years, however, the PFAS class came also more and more into focus for its toxicity, persistence, and bioaccumulation in the environment. If you are working to achieve compliance to the numerous emerging PFAS prohibitions or restrictions, we are here to partner up and support you on this mission!

**Trusted means *Tested***



## WHAT ARE PFAS?

PFAS are a diverse and expanding group of synthetic chemicals that are chemically inert and resistant to degradation due to their strong carbon-fluorine bonds. They are used in a wide variety of consumer products, from cosmetics to non-stick cookware, because of their water, grease, and stain-repellent qualities.

The inertness of these ‘forever chemicals’ means they do not degrade and are persistent in the environment. This creates a major problem as they can build up in the liver and kidneys and may contribute to elevated cholesterol, suppress the immune response, and cause thyroid disease, kidney cancer, and testicular cancer.

## REGULATION

Governments and regulatory authorities are beginning to respond to the threat of PFAS. Over the years, several jurisdictions have introduced legislation to restrict or prohibit PFAS but there is no universal approach. Stakeholders, therefore, need to be aware of the regulations being enforced in each of the territories in which they operate.

## US STATE REGULATIONS

US state legislation addressing PFAS reflects a complex patchwork of different states targeting PFAS in different product types. Some already being effective or coming into effect over the next years. Apart from prohibitions of intentionally added PFAS, other regulatory measures include reporting or labeling requirements for products containing PFAS.

Highlights of US PFAS legislation are shown in table 1.

## EUROPEAN UNION (EU)

At the community-wide level, the EU operates several pieces of legislation that regulate specific PFAS or categories of PFAS. In addition, Denmark has become the first country to prohibit PFAS in food contact paper and board materials and articles.

TABLE 1

CITATION	PRODUCT SCOPE	REQUIREMENT	EFFECTIVE DATE
CA Prop 65	Exposure to listed chemicals	PFOA, PFOS, and PFNA currently listed, require a warning label if presence leads to consumer exposure.	Effective
CA AB 652	Juvenile products	No intentionally added PFAS or TOF < 100 ppm	Jul 1, 2023
CA AB 1200	Food Packaging - paper based	No intentionally added PFAS or TOF < 100 ppm	Jan 1, 2023
	Cookware	Providing information Of designated chemicals if intentionally added to handle or food contact surface on website/ product label.	Jan 1, 2023/Jan 1, 2024
ME Title 38, §1614	Products	Notification if product contains intentionally added PFAS.	Jan 1, 2023
	Carpets, rugs or fabric treatments	No intentionally added PFAS	Jan 1, 2023
	Products	No intentionally added PFAS	Jan 1, 2030
WA RCW 70A.222.070	Food Packaging – paper based	No intentionally added PFAS	2 years after safe alternatives were found
		1st Safe alternatives report: food boats, pizza boxes, plates, wraps and liners.  2nd Safe alternatives report: bags & sleeves, bowls, flat service ware, open-top containers, closed containers.	Feb, 2023  May, 2024

## REGULATION (EU) 1907/2006 (REACH)

REACH is a comprehensive piece of legislation for the management of substances in the EU. It regulates chemical substances on their own, in mixtures, and in articles.

The most important restrictions applicable to articles can be found in Annex XVII of REACH, which prohibits and restricts defined substances, and the provisions relating to substances of very high concern (SVHC) on the Candidate List.

PFAS restrictions can be found under Annex XVII, with further PFAS compounds being present on the SVHC Candidate List.

PFAS restrictions per REACH Annex XVII are shown in table 2.

## REGULATION (EU) 2019/1021 (POP)

The EU Persistent Organic Pollutants (POP) Regulation implements prohibitions of the Stockholm Convention on the EU level. Currently, the following PFAS compounds are prohibited under the POP regulation:

- PFOS and its derivatives
- PFOA, its salts, and related compounds

Further details are provided in table 3.

## SGS SOLUTION

While compliance with EU PFAS restrictions can be established via analytical testing alone for US PFAS legislation, a combination of supplier's declaration and analytical testing is typically recommended.

With regard to analytical testing, we have the following test capabilities in our toolbox. All testing capabilities are available in many of our global laboratories including the US.

- Total Fluorine Screening
  - Bomb combustion followed by ion-chromatography (IC) with reference to EN 14582
- Total Organic Fluorine Screening (TOF)
  - Solvent Extraction and Combustion Ion Chromatography (CIC) with reference to EN 14582
  - Limited to extraction of non-polymeric PFAS compounds
- PFAS target analysis
  - Solvent Extraction followed by detection via GC-MS or LC-MS

TABLE 2

CITATION	SCOPE	REQUIREMENT	EFFECTIVE DATE
REACH Annex XVII, Entry 68	Substances on their own	C9-C14 Perfluorocarboxylic acids (PFCA), their salts, and related compounds: Prohibited	Feb 25, 2023
	Constituent of another substance, mixtures, and articles	Sum of C9-C14 Perfluorocarboxylic acids (PFCA) and their salts: < 25 ppb  Sum of C9-C14 PFCA-related substances: < 260 ppb	

TABLE 3

CITATION	SCOPE	REQUIREMENT	EFFECTIVE DATE
POP	PFOA, its salts, and related compounds	PFOA and its salts: < 25 ppb  PFOA related compounds: < 1 ppm	Effective
	PFOS and its derivatives	Constituent of substances or in mixtures: < 10 mg/kg  Semi finished products or articles: < 0.1%  Textiles or other coated materials: < 1 µg/m²	Effective

We work with you on a tailor-made solution based on your product in hand and your market's compliance requirements.

- **Step 1:** Evaluation of the product and definition of a "High-Risk Product"
- **Step 2:** Design an appropriate customized test approach
- **Step 3:** Application of appropriate test methods
- **Step 4:** Issue test report with conclusion or data

## WHY SGS?

We are a trusted and independent third-party service provider providing tailor-made PFAS testing services using verified test methods for a wide range of product types. We help you to ensure that your products comply with statutory and voluntary regulatory requirements.

## CONTACT US

SGS NORTH AMERICA INC.

291 Fairfield Avenue  
Fairfield NJ, 07004, USA

+1 973 575 5252

uscp.inquiries@sgs.comcp

sgsgroup.us.com

# SGS