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ASTM International -
PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

ASTM International

With more than 13,000 standards, ASTM improves the lives of millions worldwide. The dedication and tireless efforts of ASTM's 32,000+ international members impact the quality, safety, and productivity of 90+ industry sectors. Through the work of our global partners, ASTM standards have been cited nearly 8,000 times in laws and regulations around the world. What began with the railroad industry at the height of the industrial age has evolved into important activity across many industry sectors, including aviation, consumer products, and advanced manufacturing.

Expansive PFAS Efforts within ASTM Committees

ASTM International has long maintained standards to address environmental measure and exposure to PFAS. At least ten ASTM committees are impacted by PFAS, and many have already developed standards. The following is not comprehensive.

- D01 on Paint and Related Coatings, Materials, and Applications
- D10 on Packaging
- D12 on Soaps and Other Detergents
- D13 on Textiles
- D22 on Air Quality
- E60 on Sustainability
- F04 on Medical and Surgical Materials and Devices
- F08 on Sports Equipment, Playing Surfaces, and Facilities
- F13 on Pedestrian/Walkway Safety and Footwear
- F15 on Consumer Products
- F23 on Personal Protective Clothing and Equipment

ASTM Committee E50 on Environmental Assessment, Risk Management and Corrective Action

- E3302-21, *Standard Guide for PFAS Analytical Methods Selection*
- E3358-23, *Standard Guide for PFAS Site Screening and Initial Characterization*
- E3274-21, *Standard Guide for Management of Investigation-Derived Waste Associated with PFAS*
- E1527-21, *Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*
    - *PFAS included as an "emerging contaminant"*

ASTM Committee D19 on Water

- D7979-20, *Standard Test Method for Determination of Per- and Polyfluoroalkyl Substances in Water, Sludge, Influent, Effluent, and Wastewater by Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)*
- D8421-22, *Standard Test Method for Determination of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Matrices by Co-solvation followed by Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)*

ASTM Committee D34 on Waste Management

- D7968-17a, *Standard Test Method for Determination of Polyfluorinated Compounds in Soil by Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)*

F15.81 on per- and polyfluoroalkyl substances (PFAS) - Background

Subcommittee F15.81 was developed after stakeholders requested a venue to develop standards that provide guidance on how to prepare and analyze a wide variety of consumer product samples for PFAS.

Since there are no standard methods for measuring PFAS in consumer products, F15.81 is working to fill the void. After first convening in June 2022, F15.81 has quickly grown to over 325 technical experts that meet virtually on a regular basis to develop a standard guide. With more than 12,000 PFAS compounds in commerce, the standards developed by the subcommittee will focus on those that are of greatest pertinence to human and environmental health.

Active F15.81 Work Item

WK83978, New Guide for Selecting Analytical Methods to Evaluate PFAS in Consumer and Related Products

- This proposed guide discusses the selection, application, interpretation, and limitations of available preparatory and analytical methods and techniques to identify and determine PFAS in different types of products and material media.
- However, the guide does not attempt to establish any criteria for acceptable limits.

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More information available at:
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