
Tekstilije in tekstilni izdelki - Per- in polifluoroalkilne snovi (PFAS) - 1. del: Analiza alkalnega ekstrakta s tekočinsko kromatografijo in tandemsko masno spektrometrijo

Textiles and textile products - Per- and polyfluoroalkyl substances (PFAS) - Part 1: Analysis of an alkaline extract using liquid chromatography and tandem mass spectrometry

Textilien und textile Erzeugnisse - Per- und polyfluorierte Alkylverbindungen (PFAS) - Teil 1: Untersuchung eines alkalischen Extraktes mittels Flüssigkeitschromatographie und Tandem-Massenspektrometrie

Textiles et produits textiles - Substances perfluoroalkylées et polyfluoroalkylées (PFAS) - Partie 1 : Analyse d'un extrait alcalin par chromatographie en phase liquide et spectrométrie de masse en tandem

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English Version

Textiles and textile products - Per- and polyfluoroalkyl
substances (PFAS) - Part 1: Analysis of an alkaline extract
using liquid chromatography and tandem mass
spectrometry

Textiles et produits textiles - Substances
perfluoroalkylées et polyfluoroalkylées (PFAS) - Partie
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Textilien und textile Erzeugnisse - Per- und
polyfluorierte Alkylverbindungen (PFAS) - Teil 1:
Untersuchung eines alkalischen Extraktes mittels
Flüssigkeitschromatographie und Tandem-
Massenspektrometrie

This European Standard was approved by CEN on 14 March 2025.

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European foreword

This document (EN 17681-1:2025) has been prepared by Technical Committee CEN/TC 248 “Textiles and textile products”, the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2025, and conflicting national standards shall be withdrawn at the latest by October 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 17681-1:2022.

This document includes the following significant technical changes with respect to EN 17681-1:2022:

- the title has been changed;
- the introduction has been amended;
- Table 1 has been revised;
- Table 2 has been reordered and updated with regard to new EU regulations; the majority of the substance names has been aligned with EN 17892:2024 [8]; 10:2 fluorotelomer methacrylate has been added;
- Clause 1: the scope has been changed considering extraction with simultaneous alkaline hydrolysis;
- Clause 2: EN 17681-2 has been deleted;
- 3.1, 3.2 and 3.3 have been added;
- Clause 4 has been changed, describing the extraction with simultaneous alkaline hydrolysis;
- Clause 5 and Clause 6 have been amended and reorganised;
- 7.1: the note has been deleted;
- 8.4 has been technically revised, describing the extraction with simultaneous hydrolysis;
- 9.3 and 9.4 have been rephrased and amended;
- 9.5 has been deleted, statistical data on the reliability are shown in Annex D;
- Clause 10 has been rephrased;
- Table A.1: the majority of the substance names has been aligned with EN 17892:2024 [8];
- Table C.1 has been integrated into Table 2 and former Annex C has been deleted;
- former Annex D has become Annex C;
- Annex D on the reliability of the test method has been added;
- Annex E describing the methanol extraction has been added;

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- Annex F describing the analysis of certain PFAS with gas chromatography with mass selective detector (GC-MSD) based on EN 17681-2:2022 [9] has been added;
- Bibliography: further references have been added.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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