

STN	Textílie a textilné výrobky Nebezpečné látky potenciálne prítomné v zložkách materiálov textilných výrobkov Stanovenie polycyklických aromatických uhl'ovodíkov (PAH), metódou chromatografických technik	STN EN 17132 80 0626
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Textiles and textile products - Determination of Polycyclic Aromatic Hydrocarbons (PAH), method using gas chromatography

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Textiles and textile products - Determination of Polycyclic Aromatic Hydrocarbons (PAH), method using gas chromatography

Textiles et produits textiles - Détermination des hydrocarbures aromatiques polycycliques (HAP), méthode par chromatographie en phase gazeuse

Textilien und textile Erzeugnisse - Kritische Stoffe, die potentiell in Bestandteilen von Materialien textiler Erzeugnisse vorhanden sind - Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK), Verfahren mit chromatographischen Methoden

This European Standard was approved by CEN on 26 May 2019.

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COMITÉ EUROPÉEN DE NORMALISATION
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EN 17132:2019 (E)

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European foreword

This document (EN 17132:2019) 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of an identical text or by endorsement, at the latest by January 2020, and conflicting national standards shall be withdrawn at the latest by January 2020.

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 is adapted from CEN ISO/TS 16190 [1], prepared by Technical Committee CEN/TC 309, “Footwear”, in collaboration with ISO Technical Committee ISO/TC 216, “Footwear”, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement). The adaptation is based on the extension of the scope to textiles and textile products.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 17132:2019 (E)**Introduction**

In the European Union, according to Regulation (EC) No 1907/2006 (REACH), Annex XVII, Entry 50, articles such as clothing, footwear and gloves are not to be placed on the market for supply to the general public if any of their rubber or plastic components that come into direct, as well as prolonged or short-term repetitive, contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 1 mg/kg (0,000 1 % by weight of this component) of any of the following PAHs.

Toys and childcare articles, are not to be placed on the market if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 0,5 mg/kg (0,000 05 % by weight of this component) of any of the following PAHs.

Further information can be found in the ECHA guideline [3].

According to Regulation (EU) 2018/1513 amending Annex XVII to Regulation (EC) No 1907/2006 (REACH) by Entry 72, (a) clothing or related accessories; (b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing; (c) footwear are not to be placed on the market after 1 November 2020, if they contain more than 1 mg/kg (0,000 1 % by weight of this component) of any of the following PAHs.

This restriction does not apply to: (a) clothing, related accessories or footwear, or parts of clothing, related accessories or footwear, made exclusively of natural leather, fur or hide; (b) non-textile fasteners and non-textile decorative attachments; (c) second-hand clothing, related accessories, textiles other than clothing or footwear; (d) wall-to-wall carpets and textile floor coverings for indoor use, rugs and runners. It also does not apply to clothing, related accessories, textiles other than clothing, or footwear within the scope of Regulation (EU) 2016/425 or Regulation (EU) 2017/745. The restriction on textiles other than clothing does not apply to disposable textiles. "Disposable textiles" means textiles that are designed to be used only once or for a limited time and are not intended for subsequent use for the same or a similar purpose.

Regulated PAHs: Benzo[a]pyrene (BaP), Benzo[e]pyrene (BeP), Benzo[a]anthracene (BaA), Chrysen (CHR), Benzo[b]fluoranthene (BbFA), Benzo[j]fluoranthene (BjFA), (g) Benzo[k]fluoranthene (BkFA), Dibenzo[a,h]anthracene (DBAhA).

The PAH Benzo(g,h,i)perylene was added to the REACH Candidate List of SVHC on 27 June 2018.

In addition, the following PAHs are under consideration for addition to the REACH Regulation.

Indeno(1,2,3-cd)pyrene, Benzo(j,k)fluorene (fluoranthrene), Napthalene, Anthracene, Pyrene, Benzo(g,h,i)perylene, Acenaphthalene, Acenaphthene

WARNING — The use of this document involves hazardous materials. It does not purport to address all of the safety or environmental problems associated with its use. It is the responsibility of users of this document to take appropriate measures to ensure the safety and health of personnel and the environment prior to application of the document and fulfil statutory and regulatory requirements for this purpose.

1 Scope

This document specifies a method to determine the amounts of polycyclic aromatic hydrocarbons (PAH) in components of textile products. This method has been elaborated to achieve a limit of quantification of 0,1 mg/kg.

NOTE A list of relevant materials can be found in CEN/TR 16741 [2].

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 4787, *Laboratory glassware — Volumetric instruments — Methods for testing of capacity and for use (ISO 4787)*

EN ISO 5089, *Textiles — Preparation of laboratory test samples and test specimens for chemical testing (ISO 5089)*

ISO 28540:2011, *Water quality — Determination of 16 polycyclic aromatic hydrocarbons (PAH) in water — Method using gas chromatography with mass spectrometric detection (GC-MS)*

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