



BSI Standards Publication

## **Textiles - Determination of the content of compounds based on chlorobenzenes and chlorotoluenes**

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## National foreword

This British Standard is the UK implementation of EN 17137:2018.

The UK participation in its preparation was entrusted to Technical Committee TCI/80, Chemical testing of textiles.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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### Amendments/corrigenda issued since publication

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English Version

## Textiles - Determination of the content of compounds based on chlorobenzenes and chlorotoluenes

Textiles - Détermination de la teneur de composés  
à base de chlorobenzènes et chlorotoluènes

Textilien - Bestimmung des Gehaltes  
von Verbindungen auf der Basis von  
Chlorbenzol und Chlortoluol

This European Standard was approved by CEN on 3 September 2018.

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# Contents

Page

|                                                                   |            |
|-------------------------------------------------------------------|------------|
| <b>European foreword</b> .....                                    | <b>iii</b> |
| <b>1 Scope</b> .....                                              | <b>4</b>   |
| <b>2 Normative references</b> .....                               | <b>4</b>   |
| <b>3 Terms and definitions</b> .....                              | <b>4</b>   |
| <b>4 Principle</b> .....                                          | <b>4</b>   |
| <b>5 Apparatus</b> .....                                          | <b>4</b>   |
| 5.1 Standard laboratory equipment. ....                           | 4          |
| 5.3 Ultrasonic bath for extraction. ....                          | 4          |
| <b>6 Reagents</b> .....                                           | <b>5</b>   |
| 6.1 Dichloromethane for residue analysis (analytical grade). .... | 5          |
| 6.2 Reference substances. ....                                    | 5          |
| <b>7 Procedure</b> .....                                          | <b>5</b>   |
| 7.1 Sampling and test specimen preparation .....                  | 5          |
| 7.2 Extraction .....                                              | 6          |
| 7.3 Filtration .....                                              | 6          |
| 7.4 Gas chromatographic determination .....                       | 6          |
| 7.5 Calibration .....                                             | 6          |
| 7.6 Calculation and expression of the results .....               | 6          |
| <b>8 Reliability of the method</b> .....                          | <b>7</b>   |
| <b>9 Test report</b> .....                                        | <b>7</b>   |
| <b>Annex A (informative) Chromatographic analyses</b> .....       | <b>8</b>   |
| <b>Annex B (informative) Reliability of the method</b> .....      | <b>10</b>  |
| <b>Bibliography</b> .....                                         | <b>15</b>  |

## European foreword

This document (EN 17137:2018) 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 May 2019 and conflicting national standards shall be withdrawn at the latest by May 2019.

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 based on DIN 54 232, which was created by the Working Committee NA 062-05-12 AA “Textiles chemical test methods and fibre separation” of the Standard Committee Testing (NMP) in the DIN Deutsches Institut for Standardization.

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

## 1 Scope

This document specifies a method of analysis for determining the content of chlorobenzenes and chlorotoluenes in textile products made of components such as outer fabric, interlining, lining, plastic slide fasteners, plastic buttons, labels, threads and appliques.

The method applies to a mass fraction of 0,1 mg/kg to 10 mg/kg per single isomer. Both higher and lower concentrations can be determined if the mass of the sample is selected accordingly or if appropriate dilutions are made during the analysis.

## 2 Normative references

There are no normative references in this document.

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

### 3.1 component

individual part (one material) of the textile product sample

### 3.2 composite test specimen

test specimen composed from various sub-test specimens of components

## 4 Principle

The cut test specimen is extracted via ultrasonication in a closed vessel using dichloromethane. Interfering particles and fibres are removed by filtering through membrane filters. Without additional purification, the extract is analysed to determine the content of chlorobenzenes and chlorotoluenes by GC-MS with selected ion mode, using an internal standard for quantification.

## 5 Apparatus

### 5.1 Standard laboratory equipment.

### 5.2 Glass vials with tight closure.

NOTE Vial volumes of 40 ml to 100 ml have been found suitable.

### 5.3 Ultrasonic bath for extraction.

### 5.4 Analytical balance, resolution of at least 0,000 1 g.

### 5.5 Syringes with Luer Lock, 2 ml, with disposable syringe filters, made of polytetrafluoroethylene (PTFE) membrane.

NOTE Pore size of 0,45 µm has been found suitable.