

This is a preview of "ISO 17299-5:2014". [Click here to purchase the full version from the ANSI store.](#)

First edition  
2014-04-15

---

---

## **Textiles — Determination of deodorant property —**

### **Part 5: Metal-oxide semiconductor sensor method**

*Textiles — Détermination de la propriété de déodorant —  
Partie 5: Méthode par capteur à semi-conducteur métal-oxyde*



Reference number  
ISO 17299-5:2014(E)

© ISO 2014

This is a preview of "ISO 17299-5:2014". Click [here](#) to purchase the full version from the ANSI store.



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of "ISO 17299-5:2014". Click here to purchase the full version from the ANSI store.

## Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Principle</b> .....	<b>2</b>
<b>5 Reagents</b> .....	<b>2</b>
<b>6 Apparatus and materials</b> .....	<b>3</b>
<b>7 Preparation of the odour test gas</b> .....	<b>3</b>
7.1 Master gas.....	3
7.2 Preparation of the test quasi unpleasant odours.....	4
<b>8 Sensor response check</b> .....	<b>5</b>
<b>9 Preparation of calibration curve</b> .....	<b>5</b>
9.1 Initial concentration.....	5
9.2 Odour unit concentration for quasi unpleasant odours.....	5
9.3 Creation of calibration curve for quasi unpleasant odours.....	6
<b>10 Deodorant test</b> .....	<b>7</b>
10.1 Preparation of test specimen.....	7
10.2 Conditioning of the specimen.....	7
10.3 Test procedure.....	7
<b>11 Calculation of the odour unit concentration</b> .....	<b>8</b>
<b>12 Calculation of reduction rate</b> .....	<b>8</b>
<b>13 Test report</b> .....	<b>9</b>
<b>Annex A (informative) Example of the test</b> .....	<b>10</b>
<b>Annex B (informative) Specifications of the odour test instrument</b> .....	<b>14</b>
<b>Annex C (informative) Practical testing results</b> .....	<b>17</b>
<b>Bibliography</b> .....	<b>26</b>

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#).

The committee responsible for this document is ISO/TC 38, *Textiles*.

ISO 17299 consists of the following parts, under the general title *Textiles — Determination of deodorant property*:

- *Part 1: General principle*
- *Part 2: Detector tube method*
- *Part 3: Gas chromatography method*
- *Part 4: Condensation sampling analysis*
- *Part 5: Metal-oxide semiconductor sensor method*

This is a preview of "ISO 17299-5:2014". [Click here to purchase the full version from the ANSI store.](#)

## Introduction

This part of ISO 17299 describes a test method using a testing instrument equipped with multiple metal-oxide semiconductor sensors against composite odours for all textiles. The multiple sensors improve accuracy for several kinds of composite odours.