

---

---

**Corrosion of metals and alloys —  
Classification of low corrosivity of  
indoor atmospheres —**

**Part 3:  
Measurement of environmental  
parameters affecting indoor  
corrosivity**

*Corrosion des métaux et alliages — Classification de la corrosivité  
faible des atmosphères d'intérieur —*

*Partie 3: Mesurage des paramètres environnementaux affectant la  
corrosivité des atmosphères d'intérieur*

[ISO 11844-3:2020](https://standards.iteh.ai/catalog/standards/iso/89b0929f-bc6c-4127-86ca-6b339ad91247/iso-11844-3-2020)

<https://standards.iteh.ai/catalog/standards/iso/89b0929f-bc6c-4127-86ca-6b339ad91247/iso-11844-3-2020>



iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

[ISO 11844-3:2020](https://standards.iteh.ai/catalog/standards/iso/89b0929f-bc6c-4127-86ca-6b339ad91247/iso-11844-3-2020)

<https://standards.iteh.ai/catalog/standards/iso/89b0929f-bc6c-4127-86ca-6b339ad91247/iso-11844-3-2020>



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Fax: +41 22 749 09 47  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

# 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>1</b>
<b>5 Environmental parameters</b> .....	<b>1</b>
<b>6 Humidity and temperature parameters</b> .....	<b>2</b>
6.1 Relative humidity.....	2
6.2 Temperature.....	2
6.3 Temperature–humidity complex.....	2
<b>7 Airborne gas contaminants</b> .....	<b>2</b>
7.1 Principle.....	2
7.2 Placing of measuring equipment.....	3
7.2.1 General.....	3
7.2.2 Continuous gas-measuring instruments.....	3
7.2.3 Active sampler.....	3
7.2.4 Passive sampler.....	3
7.2.5 Gas-deposition equipment.....	3
7.3 Measuring methods and duration.....	3
7.3.1 Continuous measurement.....	3
7.3.2 Measurement and calculation with the active sampler.....	3
7.3.3 Measurement and calculation with the passive sampler.....	4
7.3.4 Measurement and calculation of deposition rate of gas pollution.....	5
<b>8 Airborne particle contaminants</b> .....	<b>6</b>
8.1 Principle.....	6
8.2 Volumetric measurements.....	6
8.3 Measurement of particle deposits.....	6
<b>9 Dry deposition velocity and measurements of air flow</b> .....	<b>7</b>
<b>Annex A (informative) Reagents used for both passive and active samplers</b> .....	<b>8</b>
<b>Bibliography</b> .....	<b>10</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 of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 156, *Corrosion of metals and alloys*.

This second edition cancels and replaces the first edition (ISO 11844-3:2006), which has been technically revised. The main changes compared with the previous edition are as follows:

- the normative references have been updated;
- a reference to ISO 16000 in [Clause 5](#) has been added;
- the detection limits in [7.3.1](#) and [7.3.2](#) have been updated;
- a new [Clause 9](#) has been added.

A list of all parts in the ISO 11844 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

This document deals with environmental parameters for the characterization of indoor atmospheres and methods of measurement.

The environmental parameters for the characterization of indoor atmospheres include more airborne contaminants than are normally used for the characterization of the outdoor environment.

Measurement of environmental parameters is a way of characterizing the corrosivity of the indoor atmosphere and will always be required if it is necessary to consider measures for reducing the corrosivity.

iTeh Standards  
(<https://standards.itih.ai>)  
Document Preview

[ISO 11844-3:2020](https://standards.itih.ai/catalog/standards/iso/89b0929f-bc6c-4127-86ca-6b339ad91247/iso-11844-3-2020)

<https://standards.itih.ai/catalog/standards/iso/89b0929f-bc6c-4127-86ca-6b339ad91247/iso-11844-3-2020>

