

This is a preview of "ISO 16474-2:2013". [Click here to purchase the full version from the ANSI store.](#)

First edition
2013-11-15

Paints and varnishes — Methods of exposure to laboratory light sources —

Part 2: Xenon-arc lamps

Peintures et vernis — Méthodes d'exposition à des sources lumineuses de laboratoire —

Partie 2: Lampes à arc au xénon



Reference number
ISO 16474-2:2013(E)

© ISO 2013

This is a preview of "ISO 16474-2:2013". Click [here](#) to purchase the full version from the ANSI store.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2013

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
Web www.iso.org

Published in Switzerland

This is a preview of "ISO 16474-2:2013". Click here to purchase the full version from the ANSI store.

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Apparatus	3
5.1 Laboratory light source.....	3
5.2 Test chamber.....	4
5.3 Radiometer.....	5
5.4 Black-standard/black-panel thermometer.....	5
5.5 Wetting and humidity-control equipment.....	5
5.6 Specimen holders.....	5
5.7 Apparatus to assess changes in properties.....	6
6 Test specimens	6
7 Exposure conditions	6
7.1 Radiation.....	6
7.2 Temperature.....	6
7.3 Relative humidity of chamber air.....	7
7.4 Spray cycle.....	8
7.5 Cycles with dark periods.....	8
7.6 Sets of exposure conditions.....	9
8 Procedure	9
8.1 General.....	9
8.2 Mounting the test specimens.....	9
8.3 Exposure.....	9
8.4 Duration of test.....	10
8.5 Measurement of radiant exposure.....	10
8.6 Determination of changes in properties after exposure.....	10
9 Test report	10
Annex A (informative) Filtered xenon-arc radiation — Spectral power distribution	11
Annex B (normative) Additional exposure cycles	13
Bibliography	15

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. 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. 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 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This first edition of ISO 16474-2, together with ISO 16474-1, cancels and replaces ISO 11341:2004 which has been technically revised.

ISO 16474 consists of the following parts, under the general title *Paints and varnishes — Methods of exposure to laboratory light sources*:

- *Part 1: General guidance*
- *Part 2: Xenon-arc lamps*
- *Part 3: Fluorescent UV lamps*
- *Part 4: Open-flame carbon-arc lamps*

This is a preview of "ISO 16474-2:2013". [Click here to purchase the full version from the ANSI store.](#)

Introduction

Coatings of paints, varnishes and similar materials (subsequently referred to simply as coatings) are exposed to laboratory light sources, in order to simulate in the laboratory the ageing processes which occur during natural weathering or during exposure tests under glass cover.