

---

---

**Imaging materials — Colour images —  
Determination of water resistance of  
printed colour images**

*Matériaux pour l'image — Images en couleurs sur impressions en  
papier — Détermination de la résistance interne de la couleur à l'eau*

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

[ISO 18935:2018](https://standards.iteh.ai/catalog/standards/iso/90ec0c5b-25a1-48b4-a061-bc8ee1501a4f/iso-18935-2018)

<https://standards.iteh.ai/catalog/standards/iso/90ec0c5b-25a1-48b4-a061-bc8ee1501a4f/iso-18935-2018>



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

[ISO 18935:2018](https://standards.iteh.ai/catalog/standards/iso/90ec0c5b-25a1-48b4-a061-bc8ee1501a4f/iso-18935-2018)

<https://standards.iteh.ai/catalog/standards/iso/90ec0c5b-25a1-48b4-a061-bc8ee1501a4f/iso-18935-2018>



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2018

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 Categories of water resistance</b> .....	<b>1</b>
4.1 General.....	1
4.2 Water resistant.....	1
4.3 Moderately water resistant.....	1
4.4 Not water resistant.....	2
<b>5 Water resistance estimating procedures</b> .....	<b>2</b>
5.1 General considerations.....	2
5.2 Control sample.....	2
<b>6 Test methods</b> .....	<b>2</b>
6.1 General.....	2
6.2 Method 1 — Standing water evaporation.....	3
6.3 Method 2 — Standing water plus wiping effects.....	3
6.4 Method 3 — Water soak.....	3
6.5 Method 4 — Edge immersion.....	3
<b>7 Test pattern preparation</b> .....	<b>4</b>
7.1 General considerations.....	4
7.2 Example test patterns.....	5
<b>8 Test report</b> .....	<b>5</b>
<b>Annex A (informative) Determination of resistance to other liquids</b> .....	<b>7</b>
<b>Bibliography</b> .....	<b>8</b>

<https://standards.iteh.ai/catalog/standards/iso/90ec0c5b-25a1-48b4-a061-bc8ee1501a4f/iso-18935-2018>

## 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 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 the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 42, *Photography*.

This third edition cancels and replaces the second edition (ISO 18935:2016), of which it constitutes a minor revision. The changes compared to the previous edition are as follows:

- changes in [Clauses 6](#) and [8](#) and in [Annex A](#).

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

Water resistance is not an important consideration in the normal storage of colour prints. However, in a disaster situation, such as floods, earthquakes or water main breaks, this property can be of critical importance if the print is to be salvaged. A wide variety of materials are used for digital colour prints and the colorants used in some digital prints are water soluble. The degree of their water resistance varies depending upon the colorants used and if the print has a water-resistant overcoat. In addition, the paper or other substrate may be of equal importance. The same colorants may exhibit very good water resistance on one substrate but can be completely washed off from a different substrate. Even print systems that use water-insoluble colorants may be damaged by water exposure if the substrate is not also water resistant. This document provides a standardized method to evaluate the qualitative water resistance of colour prints.

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

[ISO 18935:2018](https://standards.itih.ai/catalog/standards/iso/90ec0c5b-25a1-48b4-a061-bc8ee1501a4f/iso-18935-2018)

<https://standards.itih.ai/catalog/standards/iso/90ec0c5b-25a1-48b4-a061-bc8ee1501a4f/iso-18935-2018>

