

Redline version  
compares Second edition to  
First edition



---

---

**Optics and photonics —  
Environmental test methods —**

**Part 8:  
High internal pressure, low internal  
pressure, immersion**

*Optique et photonique — Méthodes d'essais d'environnement —  
Partie 8: Pression interne élevée, pression interne faible, immersion*

Sample Document

get full document from [standards.iteh.ai](https://standards.iteh.ai)



Reference number  
ISO 9022-8:redline:2015(E)

© ISO 2015

### IMPORTANT — PLEASE NOTE

This is a mark-up copy and uses the following colour coding:

- |                                                                                   |                                                                                             |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Text example 1</b>                                                             | — indicates added text (in green)                                                           |
| <del>Text example 2</del>                                                         | — indicates removed text (in red)                                                           |
|  | — indicates added graphic figure                                                            |
|  | — indicates removed graphic figure                                                          |
| <b>1.x ...</b>                                                                    | — Heading numbers containg modifications are highlighted in yellow in the Table of Contents |

### DISCLAIMER

This Redline version provides you with a quick and easy way to compare the main changes between this edition of the standard and its previous edition. It doesn't capture all single changes such as punctuation but highlights the modifications providing customers with the most valuable information. Therefore it is important to note that this Redline version is not the official ISO standard and that the users must consult with the clean version of the standard, which is the official standard, for implementation purposes.



### COPYRIGHT PROTECTED DOCUMENT

© ISO 2015

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

# Contents

Page

|                                                                          |    |
|--------------------------------------------------------------------------|----|
| <b>Foreword</b>                                                          | iv |
| <b>Introduction</b>                                                      | vi |
| <b>1 Scope</b>                                                           | 1  |
| <b>2 Normative <del>reference</del> references</b>                       | 1  |
| <b>3 General information and test conditions</b>                         | 1  |
| <b>4 Conditioning</b>                                                    | 2  |
| 4.1 Conditioning method 80: High internal pressure                       | 2  |
| 4.2 Conditioning method <del>80</del> 81: Low internal pressure          | 2  |
| 4.3 Conditioning method 82: Immersion                                    | 2  |
| <b>5 Procedure</b>                                                       | 3  |
| 5.1 General                                                              | 3  |
| 5.2 Conditioning method 82: Preconditioning of specimen and initial test | 3  |
| 5.3 Conditioning methods 80 and 81: Pressure change curve                | 3  |
| 5.4 State of operation 2                                                 | 4  |
| 5.5 Conditioning method 82: Recovery and final test                      | 4  |
| 5.6 Conditioning method 82: Evaluation                                   | 4  |
| <b>6 Environmental test code</b>                                         | 4  |
| <b>7 Specification</b>                                                   | 4  |
| <b>Annex A (informative) Explanatory notes</b>                           | 6  |

## 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)).

~~Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.~~ 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

~~International Standard~~ The committee ISO 9022-8 was prepared by Technical Committee responsible for this document is ISO/TC 172, *Optics and optical instruments* photonics, Subcommittee SC 1, *Fundamental standards*.

This second edition cancels and replaces the first edition (ISO 9022-8:1994), of which it constitutes a minor revision.

ISO 9022 consists of the following parts, under the general title *Optics and optical instruments* photonics — *Environmental test methods*:

- Part 1: Definitions, extent of testing
- Part 2: Cold, heat and humidity
- Part 3: Mechanical stress
- Part 4: Salt mist
- ~~Part 5: Combined cold~~ 6: Dust, low air pressure
- ~~Part 6: Dust~~
- Part 7: ~~Drip~~ Resistance to drip or rain
- Part 8: High internal pressure, low internal pressure, immersion
- Part 9: Solar radiation and weathering
- ~~Part 10: Combined sinusoidal vibration, dry heat or cold~~
- Part 11: Mould growth
- Part 12: Contamination

- ~~— Part 13: Combined shock, bump or free fall, dry heat or cold~~
  - Part 14: Dew, hoarfrost, ice
  - ~~— Part 15: Combined random vibration wide band, reproducibility medium, in dry heat or cold~~
  - ~~— Part 16: Combined bounce or steady state acceleration, in dry heat or cold~~
  - Part 17: Combined contamination, solar radiation
  - ~~Part 18: Combined damp heat and low internal pressure~~ 20: Humid atmosphere containing sulfur dioxide or hydrogen sulfide
  - ~~Part 19: Temperature cycles combined with sinusoidal change with bump or random vibration~~ 22: Combined cold, dry heat or temperature change with bump or random vibration
  - ~~Part 20: Humid atmosphere containing sulfur dioxide or hydrogen sulfide~~ 23: Low pressure combined with cold, ambient temperature and dry and damp heat
- ~~Annex A of this part of ISO 9022 is for information only.~~

# Sample Document

get full document from [standards.iteh.ai](https://standards.iteh.ai)