

This is a preview of "ISO 15027-3:2012". [Click here to purchase the full version from the ANSI store.](#)

Second edition  
2012-11-01

---

---

## Immersion suits —

### Part 3: Test methods

*Combinaisons de protection thermique en cas d'immersion —*

*Partie 3: Méthodes d'essai*



Reference number  
ISO 15027-3:2012(E)

© ISO 2012

This is a preview of "ISO 15027-3:2012". [Click here to purchase the full version from the ANSI store.](#)



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2012

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing 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 15027-3:2012". [Click here to purchase the full version from the ANSI store.](#)

## Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Testing of the device</b> .....	<b>1</b>
<b>3.1 General</b> .....	<b>1</b>
<b>3.2 Sampling</b> .....	<b>2</b>
<b>3.3 Human test subjects</b> .....	<b>2</b>
<b>3.4 Fuel resistance test</b> .....	<b>3</b>
<b>3.5 Flammability test</b> .....	<b>3</b>
<b>3.6 Rotating shock bin test</b> .....	<b>4</b>
<b>3.7 Leakage measurement</b> .....	<b>5</b>
<b>3.8 Thermal test</b> .....	<b>7</b>
<b>3.9 Temperature cycling test</b> .....	<b>10</b>
<b>3.10 Ergonomic performance testing</b> .....	<b>10</b>
<b>Annex A (normative) Test results — Uncertainty of measurement</b> .....	<b>16</b>
<b>Bibliography</b> .....	<b>17</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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

ISO 15027-3 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 162, *Protective clothing including hand and arm protection and lifejackets*, in collaboration with Technical Committee ISO/TC 188, *Small craft*, Subcommittee SC 1, *Personal safety equipment*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 15027-3:2002), which has been technically revised.

The main technical changes are:

- a) clarification that test subjects are human test subjects;
- b) addition of two sites for skin temperature measurement;
- c) revision of field of vision test;
- d) merger of 3.10 and 3.11 into one clause and renumbering of consecutive clauses;
- e) mean body temperature deleted;
- f) clarification that underclothing shall be specified by the manufacturer
- g) revision of requirements regarding the testing of a Class D suit.

ISO 15027 consists of the following parts, under the general title *Immersion suits*:

- *Part 1: Constant wear suits, requirements including safety*
- *Part 2: Abandonment suits, requirements including safety*
- *Part 3: Test methods*