

---

---

**PPE ensembles for firefighters  
undertaking specific rescue  
activities —**

**Part 4:  
Gloves**

*Équipements de protection personnelle pour pompiers entreprenant  
des activités de sauvetage particulières —  
Partie 4: Gants*

**Document Preview**

[ISO 18639-4:2018](https://standards.iteh.ai/catalog/standards/iso/b08aa7e3-942a-4c5f-924c-e78c5c83971f/iso-18639-4-2018)

<https://standards.iteh.ai/catalog/standards/iso/b08aa7e3-942a-4c5f-924c-e78c5c83971f/iso-18639-4-2018>



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

[ISO 18639-4:2018](https://standards.iteh.ai/catalog/standards/iso/b08aa7e3-942a-4c5f-924c-e78c5c83971f/iso-18639-4-2018)

<https://standards.iteh.ai/catalog/standards/iso/b08aa7e3-942a-4c5f-924c-e78c5c83971f/iso-18639-4-2018>



**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>v</b>
<b>Introduction</b> .....	<b>vi</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>2</b>
<b>4 Design and general requirements</b> .....	<b>2</b>
4.1 General.....	2
4.2 Glove sizing.....	3
4.2.1 Hand dimensions.....	3
4.2.2 Minimum sizing.....	4
4.2.3 Labelling.....	4
4.3 Glove body length.....	4
4.4 Wristlet or cuff.....	4
4.5 Other design requirements.....	4
<b>5 Pre-treatment, conditioning and sampling</b> .....	<b>4</b>
5.1 Inspection.....	4
5.2 Testing.....	4
5.2.1 Specimens.....	4
5.2.2 Exposure surface.....	4
5.2.3 Interpretation criteria.....	5
5.3 Pre-treatments.....	5
5.3.1 Laundering.....	5
5.3.2 Conditioning.....	5
5.3.3 Wetting.....	5
<b>6 Performance requirements</b> .....	<b>5</b>
6.1 General.....	5
6.2 Summary of requirements and classification.....	6
6.3 Road traffic crash (RTC).....	6
6.4 Flame resistance.....	6
6.5 Heat transfer (flame exposure).....	7
6.6 Heat transfer (radiant exposure).....	7
6.7 Heat transfer (conductive exposure).....	8
6.8 Heat resistance.....	8
6.9 Liquid penetration resistance (optional).....	8
6.10 Whole glove integrity test.....	9
6.11 Urban search and rescue (USAR).....	9
<b>7 Mechanical and other requirements</b> .....	<b>9</b>
7.1 Abrasion resistance.....	9
7.2 Cut resistance.....	10
7.3 Tear resistance.....	10
7.4 Puncture resistance.....	10
7.5 Label legibility.....	11
7.6 Ergonomic requirements.....	11
7.6.1 Dexterity.....	11
7.6.2 Grip.....	11
7.6.3 Donning.....	11
<b>8 Leather chromium(VI) content</b> .....	<b>11</b>
<b>9 Marking</b> .....	<b>11</b>
<b>10 Manufacturer/supplier information</b> .....	<b>12</b>
<b>Annex A (normative) Grip test</b> .....	<b>13</b>

<b>Annex B (normative) Donning test</b> .....	<b>15</b>
<b>Annex C (normative) Whole glove integrity test</b> .....	<b>16</b>
<b>Annex D (informative) Marking</b> .....	<b>17</b>
<b>Bibliography</b> .....	<b>20</b>

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

[ISO 18639-4:2018](https://standards.itih.ai/catalog/standards/iso/b08aa7e3-942a-4c5f-924c-e78c5c83971f/iso-18639-4-2018)

<https://standards.itih.ai/catalog/standards/iso/b08aa7e3-942a-4c5f-924c-e78c5c83971f/iso-18639-4-2018>