

This is a preview of "ISO 23273:2013". [Click here to purchase the full version from the ANSI store.](#)

First edition  
2013-06-15

---

---

## **Fuel cell road vehicles — Safety specifications — Protection against hydrogen hazards for vehicles fuelled with compressed hydrogen**

*Véhicules routiers alimentés par pile à combustible — Spécifications de sécurité — Protection contre les dangers de l'hydrogène pour les véhicules utilisant de l'hydrogène comprimé*



Reference number  
ISO 23273:2013(E)

© ISO 2013



**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](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of "ISO 23273:2013". [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 Terms and definitions</b> .....	<b>1</b>
<b>4 Environmental and operational conditions</b> .....	<b>3</b>
<b>5 Design and performance requirements of the fuel system</b> .....	<b>3</b>
5.1 General .....	3
5.2 Components .....	3
5.3 Location and installation of components .....	4
5.4 Discharges .....	4
<b>6 Test methods for determining flammability around the vehicle from fuel discharges</b> .....	<b>4</b>
<b>7 Complementary or alternative approach to verify hydrogen-related safety requirements</b> ..	<b>4</b>
7.1 General .....	4
7.2 Hydrogen-related components and systems .....	5
7.3 Integration of the hydrogen-related components and systems into the FCV .....	5
7.4 Verification of the safety concept .....	5
<b>8 Fuelling requirements</b> .....	<b>5</b>
8.1 General .....	5
8.2 Fuelling inlet .....	5
<b>Bibliography</b> .....	<b>6</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.

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](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. [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.

The committee responsible for this document is ISO/TC 22, *Road vehicles*, Subcommittee SC 21, *Electrically propelled road vehicles*.

This first edition of ISO 23273 cancels and replaces ISO 23273-2:2006, of which it constitutes a minor revision.