



**NSAI**  
Standards

Irish Standard  
I.S. EN 14334:2014

## LPG equipment and accessories - Inspection and testing of LPG road tankers

**I.S. EN 14334:2014**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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*This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):*

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*This document is based on:*

EN 14334:2014

*Published:*

2014-11-05

*This document was published under the authority of the NSAI and comes into effect on:*

2014-11-26

ICS number:

43.080.10

NOTE: If blank see CEN/CENELEC cover page

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Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

**EN 14334**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2014

ICS 43.080.10

Supersedes EN 14334:2005

English Version

## LPG equipment and accessories - Inspection and testing of LPG road tankers

Équipements pour GPL et leurs accessoires - Inspection et essais des véhicules citernes routiers pour GPL

Flüssiggas-Geräte und Ausrüstungsteile - Inspektion und Prüfung von Straßentankwagen für Flüssiggas (LPG)

This European Standard was approved by CEN on 14 September 2014.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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## EN 14334:2014 (E)

<b>Contents</b>		<b>Page</b>
<b>Foreword</b> .....		<b>3</b>
<b>Introduction</b> .....		<b>4</b>
<b>1 Scope</b> .....		<b>5</b>
<b>2 Normative references</b> .....		<b>5</b>
<b>3 Terms and definitions</b> .....		<b>6</b>
<b>4 Inspection and testing</b> .....		<b>7</b>
<b>5 Inspection and testing requirements</b> .....		<b>7</b>
<b>5.1 General</b> .....		<b>7</b>
<b>5.2 Inspection of the necessary documents</b> .....		<b>8</b>
<b>5.3 Inspection of the interior of the pressure vessel</b> .....		<b>8</b>
<b>5.4 Inspection of the exterior of the pressure vessel</b> .....		<b>8</b>
<b>5.5 Hydraulic pressure testing</b> .....		<b>9</b>
<b>5.6 Inspection of the vehicle LPG equipment and accessories</b> .....		<b>12</b>
<b>5.7 Leakproofness test</b> .....		<b>12</b>
<b>5.8 Inspection of pressure vessel or structural equipment after repair</b> .....		<b>13</b>
<b>5.9 Re-inspection</b> .....		<b>13</b>
<b>6 Inspection certificate and marking</b> .....		<b>14</b>
<b>6.1 Certification of periodic, intermediate inspection and exceptional check</b> .....		<b>14</b>
<b>6.2 Marking</b> .....		<b>14</b>
<b>Annex A (informative) Road tanker inspection/check certificate</b> .....		<b>15</b>
<b>Annex B (informative) Environmental Checklist</b> .....		<b>16</b>
<b>Bibliography</b> .....		<b>17</b>

## Foreword

This document (EN 14334:2014) has been prepared by Technical Committee CEN/TC 286 "Liquefied petroleum gas equipment and accessories", the secretariat of which is held by NSAI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2015 and conflicting national standards shall be withdrawn at the latest by May 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 14334 :2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This document has been submitted for reference into the technical annexes of the ADR [1].

The main modifications with regard to EN 14334:2005 are:

- a) the definitions in Clause 3 were updated;
- b) Clause 4, Table 1 was adapted to ADR requirements;
- c) subclause 5.4 was adapted to ADR requirements;
- d) subclause 5.5 was reviewed to provide detailed prerequisites and requirements on NDT techniques used as an alternative to hydraulic pressure test;
- e) subclause 5.7.2 was corrected to accommodate for typical working pressures for LPG pressure vessels;
- f) an environmental checklist (Annex B) was added;
- g) document was adapted to current CEN regulations.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **EN 14334:2014 (E)**

### **Introduction**

This document calls for the use of substances and procedures that may be injurious to health if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage.

The frequencies of the different types of pressure vessel inspection are given by the relevant international regulations concerning the transport of dangerous goods.

Protection of the environment is a key political issue in Europe and elsewhere. Protection of the environment is taken in a very broad sense. What is meant is the total life cycle aspects of, e.g. a product on the environment, including expenditure of energy and during all phases from mining of raw materials, fabrication, packaging, distribution, use, scrapping, recycling of materials, etc.

NOTE Annex B indicates which clauses in this standard address environmental issues. Clauses addressing environmental issues are restricted to a general guidance. Limiting values can be specified in national laws.

It is recommended that companies using this standard develop an environmental management policy. For guidance, see EN ISO 14001.

It has been assumed in the drafting of this document that the execution of its provisions is entrusted to appropriately qualified and experienced people.

## 1 Scope

This European Standard specifies minimum requirements for the inspection and testing of the LPG road tanker, which includes its pressure vessel, accessories and vehicle LPG equipment.

This European Standard does not specify requirements for the initial inspection (after manufacture) of a pressure vessel, see EN 12493, or for service equipment on the road tanker, see EN 12252.

This European Standard does not apply to compartmented road tankers.

NOTE 1 There is no upper size limit for the pressure vessel as this will be determined by the gross vehicle weight limitation.

NOTE 2 For inspection and testing requirements of equipment other than the pressure vessel, accessories and vehicle LPG equipment, see applicable regulations.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 837-1:1996, *Pressure gauges - Part 1: Bourdon tube pressure gauges - Dimensions, metrology, requirements and testing*

EN 837-3:1996, *Pressure gauges - Part 3: Diaphragm and capsule pressure gauges - Dimensions, metrology, requirements and testing*

EN 1711, *Non-destructive examination of welds - Eddy current examination of welds by complex plane analysis*

EN 12252, *LPG equipment and accessories - Equipping of LPG road tankers*

EN 12493, *LPG equipment and accessories - Welded steel pressure vessels for LPG road tankers - Design and manufacture*

EN 13109, *LPG equipment and accessories - LPG tanks and drums - Disposal*

EN ISO 3452-1, *Non-destructive testing - Penetrant testing - Part 1: General principles (ISO 3452-1)*

EN ISO 5579, *Non-destructive testing - Radiographic testing of metallic materials using film and X- or gamma rays - Basic rules (ISO 5579)*

EN ISO 9712, *Non-destructive testing - Qualification and certification of NDT personnel (ISO 9712)*

EN ISO 17636-2, *Non-destructive testing of welds - Radiographic testing - Part 2: X- and gamma-ray techniques with digital detectors (ISO 17636-2)*

EN ISO 17638, *Non-destructive testing of welds - Magnetic particle testing (ISO 17638)*

EN ISO 17640, *Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment (ISO 17640)*

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