

## **Transportable gas cylinders - Periodic inspection and testing of welded steel pressure drums**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14876:2007 sisaldab Euroopa standardi EN 14876:2007 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 28.02.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14876:2007 consists of the English text of the European standard EN 14876:2007.</p> <p>This document is endorsed on 28.02.2007 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This European Standard deals with welded steel transportable pressure drums intended for compressed and liquefied gases under pressure of water capacity from 150 litres up to 1 000 litres. This standard specifies the requirements for periodic inspection and testing to verify the integrity of such pressure drums to be re-introduced into service for a further period of time. It also defines a procedure to qualify existing pressure drums for free movement between member states of the European Union, (see Annex A).</p>	<p><b>Scope:</b></p> <p>This European Standard deals with welded steel transportable pressure drums intended for compressed and liquefied gases under pressure of water capacity from 150 litres up to 1 000 litres. This standard specifies the requirements for periodic inspection and testing to verify the integrity of such pressure drums to be re-introduced into service for a further period of time. It also defines a procedure to qualify existing pressure drums for free movement between member states of the European Union, (see Annex A).</p>
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English Version

## Transportable gas cylinders - Periodic inspection and testing of welded steel pressure drums

Bouteilles à gaz transportables - Contrôles et essais  
périodiques des fûts à pression soudés en acier

Ortsbewegliche Gasflaschen - Wiederkehrende Prüfung  
von geschweißten Fässern aus Stahl

This European Standard was approved by CEN on 11 November 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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## Foreword

This document (EN 14876:2007) has been prepared by Technical Committee CEN/TC 23 "Transportable gas cylinders", the secretariat of which is held by BSI.

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 July 2007, and conflicting national standards shall be withdrawn at the latest by July 2007.

This European Standard has been submitted for reference into the RID and/or the technical annexes of the ADR. Therefore in this context the standards listed in the normative references and covering basic requirements of the RID/ADR not addressed within the present standard are normative only when the standards themselves are referred to in the RID and/or the technical annexes of the ADR.

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

## Introduction

The principal aim of a periodic inspection and testing procedure is that, at the completion of the test, the pressure drums may be reintroduced into service for a further period of time.

Experience of the inspection and testing of pressure drums which is specified in this European Standard is an important factor when determining whether a pressure drum should be returned into service.

## 1 Scope

This European Standard deals with welded steel transportable pressure drums intended for compressed and liquefied gases under pressure of water capacity from 150 litres up to 1 000 litres.

This European Standard specifies the requirements for periodic inspection and testing to verify the integrity of such pressure drums to be re-introduced into service for a further period of time. It also defines a procedure to qualify existing pressure drums for free movement between member states of the European Union (see Annex A).

## 2 Normative references

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

EN 14208, *Transportable gas cylinders — Specification for welded pressure drums up to 1 000 litre capacity for the transport of gases — Design and construction*

EN ISO 11114-1, *Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 1: Metallic materials (ISO 11114-1:1997)*

EN ISO 11114-2, *Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 2: Non-metallic materials (ISO 11114-2:2000)*

EN ISO 11621, *Gas cylinders — Procedures for change of gas service (ISO 11621:1997)*

EN ISO 13341, *Transportable gas cylinders — Fitting of valves to gas cylinders (ISO 13341:1997)*

EN ISO 13769, *Gas cylinders — Stamp marking (ISO 13769:2002)*

## 3 Intervals between periodic inspection and test

In order to ensure continued safe operation, pressure drums shall be subjected periodically to inspection and test in accordance with Annex B. A pressure drum shall fall due for periodic inspection and test on its first receipt by filler after expiry of the interval in Annex B.

NOTE 1 Table B.1 gives a list of the intervals between periodic inspections for some gases which conforms to the current RID/ADR regulations and also gives recommendations which can be subsequently adopted by the RID/ADR regulations.

Provided that the pressure drum has been subjected to normal conditions of use and has not been subjected to abusive and abnormal conditions making the pressure drum unsafe, there is no requirement for the user to return a pressure drum before the contents have been used even though the test interval may have been exceeded. However, it is suggested that pressure drums are re-tested at a period not exceeding twice the normative time interval specified in Table B.1.

NOTE 2 Certain products such as hydrogen fluoride require an intermediate check of wall thickness as well as the contents to be checked for pressure rise due to the generation of gases such as hydrogen. Other products such as hydrogen bromide should not be allowed to exceed one and a half times the time interval for the normative test interval in Table B.1.