This is a free page sample. Access the full version online.

National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 14512:2006**

ICS 13.300
23.020.20

National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
http://www.nsai.ie

**Sales**
http://www.standards.ie

# TANKS FOR THE TRANSPORT OF DANGEROUS GOODS - TANK EQUIPMENT FOR THE TRANSPORT OF LIQUID CHEMICALS - HINGED MANHOLE COVERS AND NECKRINGS WITH PIVOTING BOLTS

*This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:*

*4 October 2006*

**NO COPYING WITHOUT NSAI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW**

© **NSAI 2006**

**Price Code E**

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

This is a free page sample. Access the full version online.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN 14512

July 2006

ICS 13.300; 23.020.20

English Version

# Tanks for the transport of dangerous goods - Tank equipment for the transport of liquid chemicals - Hinged manhole covers and neckrings with pivoting bolts

Citernes pour le transport de matières dangereuses - Equipements de la citerne pour le transport de produits chimiques liquides - Viroles et couvercles de trou d'homme à boulons basculants à charnière

Tanks für die Beförderung gefährlicher Güter - Ausrüstung für Tanks für die Beförderung flüssiger Chemieprodukte - Klappdeckeldome

This European Standard was approved by CEN on 19 June 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.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

© 2006 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN 14512:2006: E

This is a free page sample. Access the full version online.



# Contents

Page

**Foreword** ..... 3

**1 Scope** ..... 4

**2 Normative references** ..... 4

**3 Terms and definitions** ..... 4

**4 Function** ..... 4

**5 Design and materials** ..... 4
**5.1 General** ..... 4
**5.2 Design** ..... 5
**5.3 Materials** ..... 5

**6 Test media** ..... 5
**6.1 Hydraulic tests** ..... 5
**6.2 Pneumatic tests** ..... 5

**7 Type test** ..... 5
**7.1 General** ..... 5
**7.2 Manhole cover pressure test** ..... 6

**8 Production tests** ..... 6
**8.1 General** ..... 6
**8.2 Function test** ..... 6
**8.3 Manhole cover pressure test** ..... 6

**9 Marking** ..... 6

**10 Supply requirements** ..... 7
**10.1 Order information** ..... 7
**10.2 Installation and operation** ..... 7

**Annex A** (normative) **Alternative empirical approval method** ..... 8
**A.1 Proof test** ..... 8
**A.1.1 General** ..... 8
**A.2 Hydraulic pressure test** ..... 8

This is a free page sample. Access the full version online.



# Foreword

This document (EN 14512:2006) has been prepared by Technical Committee CEN/TC 296 “Tanks for transport of dangerous goods”, the secretariat of which is held by AFNOR.

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

This European Standard has been submitted for reference into the RID and/or in the technical annexes of the ADR. Therefore in this context the standards listed in the normative references clause 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 in 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.

This is a free page sample. Access the full version online.



# 1 Scope

This European Standard specifies the requirements for hinged manhole covers and neckrings with pivoting bolts for use on transportable tanks with a minimum working pressure greater than 50 kPa for the transport of dangerous goods by road and rail.

# 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 12266-1:2003, *Industrial valves - Testing of valves - Part 1: Pressure tests, test procedures and acceptance criteria - Mandatory requirements*

EN 12266-2:2002, *Industrial valves - Testing of valves - Part 2: Tests, test procedures and acceptance criteria - Supplementary requirements*

EN 14025:2003, *Tanks for the transport of dangerous goods - Metallic pressure tanks - Design and construction*

# 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

**3.1**
**maximum working pressure**
**MWP**
maximum pressure up to which the equipment can be operated

**3.2**
**test pressure**
highest effective pressure to which the shell is exposed during the hydraulic test

# 4 Function

The manhole cover provides access into the tank for inspection, cleaning, maintenance and loading of product. The neckring is an item that is welded into the tank that provides suitable sealing and fixation for the manhole cover.

# 5 Design and materials

## 5.1 General

The manufacturer shall specify in drawings and other papers, the design and the materials of the manhole cover and neckring. The minimum inside diameter of the neckring, for personnel entry into the tank, shall be 500 mm. Smaller neckrings, maximum diameter 300 mm, are allowed for inspection and cleaning purposes.

SAI GLOBAL

This is a free preview.  Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation