

EN 14025:2013+A1:2016

 **NBN**

NBN EN 14025:2013+A1:2016



Tanks for the transport of dangerous goods - Metallic pressure tanks - Design and construction

Valid from 15-07-2016

Replaces NBN EN 14025:2013

ICS: 13.300, 23.020.20

EUROPEAN STANDARD
 NORME EUROPÉENNE
 EUROPÄISCHE NORM

EN 14025:2013+A1

June 2016

ICS 13.300; 23.020.20

Supersedes EN 14025:2013

English Version

**Tanks for the transport of dangerous goods - Metallic
 pressure tanks - Design and construction**

Citernes destinées au transport de matières
 dangereuses - Citernes métalliques sous pression -
 Conception et fabrication

Tanks für die Beförderung gefährlicher Güter -
 Metallische Drucktanks - Auslegung und Bau

This European Standard was approved by CEN on 31 August 2013 and includes Amendment 1 approved by CEN on 29 April 2016.

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EN 14025:2013+A1:2016 (E)

European foreword

This document (EN 14025:2013+A1:2016) has been prepared by Technical Committee CEN/TC 296 “Tanks for the 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of an identical text or by endorsement, at the latest by December 2016, and conflicting national standards shall be withdrawn at the latest by December 2016.

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 includes Amendment 1 approved by CEN on 29 April 2016.

This document supersedes A1 EN 14025:2013 A1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

A1 *deleted text* A1

This document is submitted for reference into the RID [9] and/or in the technical annexes of the ADR [10].

NOTE The technical annexes are available at the following website: <http://www.unece.org/trans/danger/danger.htm> for ADR and for RID at <http://www.otif.org/en/dangerous-goods.htm> respectively.

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

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.

1 Scope

This European Standard specifies the minimum requirements for the design and construction of metallic pressure tanks having a maximum working or test pressure exceeding 50 kPa (0,5 bar), for the transport of dangerous goods by road and rail and sea. This European Standard includes requirements for openings, closures and structural equipment; it does not cover requirements of service equipment. For tanks for the transport of cryogenic liquids, EN 13530-1 and EN 13530-2 apply.

NOTE 1 Design and construction of pressure tanks according to the scope of this European Standard are primarily subject to the requirements of RID/ADR, 6.8.2.1, 6.8.3.1 and 6.8.5, as relevant. In addition, the relevant requirements of RID/ADR, columns 12 and 13 of Table A to chapter 3.2, 4.3 and 6.8.2.4 apply. For the structural equipment subsections 6.8.2.2 and 6.8.3.2 apply, as relevant. The definitions of RID/ADR 1.2.1 are referred to. For portable tanks see also Chapter 4.2 and Sections 6.7.2 and 6.7.3 of RID and ADR. In addition, the relevant requirements of RID/ADR, columns 10 and 11 of Table A to Chapter 3.2, 4.2, 6.7.2 and 6.7.3 apply. The paragraph numbers above relate to the 2013 issue of RID/ADR which are subject to regular revisions. This can lead to temporary non-compliances with EN 14025. It is important to know that requirements of RID/ADR take precedence over any clause of this standard.

NOTE 2 This standard is applicable to liquefied gases including LPG, however for a dedicated LPG standard see EN 12493.

If not otherwise specified, provisions which take up the whole width of the page apply to all kind of tanks. Provisions contained in a single column apply only to:

road and rail pressure tanks according to RID/ADR chapter 6.8 (left-hand column);	portable tanks according to RID/ADR chapter 6.7 (right-hand column).
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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 287-1, *Qualification test of welders — Fusion welding — Part 1: Steels*

EN 1418, *Welding personnel — Approval testing of welding operators for fusion welding and resistance weld setters for fully mechanized and automatic welding of metallic materials*

EN 1435, *Non-destructive examination of welds — Radiographic examination of welded joints*

EN 1591-1, *Flanges and their joints — Design rules for gasketed circular flange connections — Part 1: Calculation method*

EN 10204, *Metallic products - Types of inspection documents*

EN 13094:2008, *Tanks for the transport of dangerous goods — Metallic tanks with a working pressure not exceeding 0,5 bar — Design and construction*

EN 13445-2, *Unfired pressure vessels - Part 2: Materials*

EN 13445-3:2009, *Unfired pressure vessels — Part 3: Design*

EN 13445-4, *Unfired pressure vessels - Part 4: Fabrication*