

Cryogenic vessels — Large transportable vacuum insulated vessels —

Part 3: Operational requirements

The European Standard EN 13530-3:2002, with the incorporation of amendment A1:2005, has the status of a British Standard

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National foreword

This British Standard is the official English language version of EN 13530-3:2002, including amendment A1:2005.

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The UK participation in its preparation was entrusted to Technical Committee PVE/18, Cryogenic vessels, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep UK interests informed;
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(includes amendment A1:2005)

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transportables, isolés sous vide - Partie 3:Exigences de
service
(inclut l'amendement A1:2005)

Kryo-Behälter - Große ortsbewegliche, vakuum-isolierte
Behälter - Teil 3: Betriebsanforderungen
(enthält Änderung A1:2005)

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Foreword

This document EN 13530-2:2002 has been prepared by Technical Committee CEN/TC 268 "Cryogenic vessels", 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of an identical text or by endorsement, at the latest by November 2002, and conflicting national standards shall be withdrawn at the latest by November 2002.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

In this standard the annexes A and B are informative.

Users of this European Standard, prepared in the field of application of Article 118A of the EC Treaty, should be aware that standards have no formal legal relationship with Directives that may have been made under Article 118A of the Treaty. In addition, national legislation in the Member states can contain more stringent requirements than the minimum requirements of a Directive based on Article 118A. Information on the relationship between the national legislation implementing Directives based on Article 118A and this European Standard may be given in a national foreword of the national standard implementing this European Standard.

EN 13530 consists of the following parts under the general title, *Cryogenic vessels – Large transportable vacuum insulated vessels*:

- *Part 1: Fundamental requirements.*
- *Part 2: Design, fabrication, inspection and testing.*
- *Part 3: Operational requirements.*

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 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Foreword to amendment A1

This European Standard (EN 13530-3:2002/A1:2005) has been prepared by Technical Committee CEN/TC 268 "Cryogenic vessels", the secretariat of which is held by AFNOR.

This Amendment to the European Standard EN 13530-3:2002 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2005 and conflicting national standards shall be withdrawn at the latest by December 2005.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

Elements of this European Standard support the requirements of the framework Directives on Transport of Dangerous Goods and other international, national or local requirements.

Large transportable cryogenic vessels are often partly equipped by the manufacturer, but can be installed or re-installed by another party, such as the operator, user or owner. For this reason some of the scope this European Standard, which includes putting into service, inspection, filling, maintenance and emergency procedure overlaps with some of the parts EN 13530-1 and prEN 13530-2.

Operational requirements for the usage of these vessels on public road, rail, sea and air are not covered in this standard, but are defined in other International, national or local requirements.

1 Scope

1.1 This European Standard specifies operational requirements for large transportable vacuum insulated cryogenic vessels of more than 1000 l volume.

1.2 This European Standard applies to vessels designed for cryogenic fluids specified in EN 13530-1.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 12300, *Cryogenic vessels - Cleanliness for cryogenic service*.

EN 13530-1, *Cryogenic vessels - Large transportable vacuum insulated vessels - Part 1: Fundamental requirements*.

prEN 13530-2, *Cryogenic vessels - Large transportable vacuum insulated vessels - Part 2: Design, fabrication, inspection and testing*.

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply in addition to those given by EN 13530-1.

3.1

putting into service

operation by which a vessel is prepared to be used. It applies to either a new vessel being used for the first time or an existing vessel being returned to service

3.2

filling

operation by which a transportable vessel undergoes a prefill check, filling with a cryogenic fluid and an after fill check

3.3

withdrawal

process by which product is taken from a vessel to the connected supply system

3.4

outdoor location

location outside of any building or structure and not enclosed by more than two walls

3.5

underground location

area or room whose ground or floor is on all sides sufficiently lower than the adjacent ground surfaces

3.6

vessel

vessel means large transportable cryogenic vessel as defined in EN 13530-1