

**Cryogenic vessels - Transportable
vacuum insulated vessels of not more
than 1000 litres volume - Part 3:
Operational requirements**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1251-3:2000 sisaldab Euroopa standardi EN 1251-3:2000 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 17.07.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1251-3:2000 consists of the English text of the European standard EN 1251-3:2000.</p> <p>This document is endorsed on 17.07.2000 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>Käsitlusala: This European Standard specifies operational requirements for transportable vacuum insulated cryogenic vessels of not more than 1000 litres volume designed to operate above atmospheric pressure. Appropriate parts may be used as a guidance for a vessel design to operate open to the atmosphere.</p>	<p>Scope: This European Standard specifies operational requirements for transportable vacuum insulated cryogenic vessels of not more than 1000 litres volume designed to operate above atmospheric pressure. Appropriate parts may be used as a guidance for a vessel design to operate open to the atmosphere.</p>
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Võtmesõnad:

English version

Cryogenic vessels – Transportable vacuum insulated vessels of not more than 1 000 litres volume

Part 3: Operational requirements

Réipients cryogéniques – Réipients transportables, isolés sous vide, d'un volume n'excédant pas 1 000 litres – Partie 3: Exigences fonctionnement

Kryo-Behälter – Ortsbewegliche, vakuum-isolierte Behälter mit einem Fassungsraum von nicht mehr als 1 000 Liter – Teil 3: Betriebsanforderungen

This European Standard was approved by CEN on 1999-06-19.

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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.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard 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 July 2000, and conflicting national standards shall be withdrawn at the latest by July 2000.

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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

The standard has been submitted for reference into the RID and/or in the technical annexes of the ADR.

Therefore 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.

The other parts of EN 1251 are :

- Part 1 : Fundamental requirements ;
- Part 2 : Design, fabrication, inspection and testing.

1 Scope

This European Standard specifies operational requirements for transportable vacuum insulated cryogenic vessels of not more than 1 000 litres volume designed to operate above atmospheric pressure. Appropriate parts may be used as a guidance for a vessel design to operate open to the atmosphere.

For small cryogenic vessels specially designed for personal medical use, this standard can be used as a guide only.

The scope includes putting into service, filling, withdrawal, transport within the location, storage, maintenance, periodic inspection and emergency procedures. Operational requirements for vessels used on public roads, sea and air are not covered.

For the transportation of these vessels by public road, rail, sea and air, other requirements apply; these are defined in specific regulations.

This standard applies to vessels for cryogenic fluids as specified in EN 1251-1. The additional requirements for flammable fluids are detailed in clause 16.

For existing small transportable cryogenic vessels, see annex C.

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.

EN 1251-1, *Cryogenic vessels - Transportable vacuum insulated vessels of not more than 1 000 litres volume - Part 1: Fundamental requirements*

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

3 Definitions

For the purposes of this standard, the following definitions apply in addition with those given in EN 1251-1 :

3.1

putting into service

the 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

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

3.3

withdrawal

the operation by which vessels are connected to supply equipment and product is drawn off

3.4

outdoor location

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

3.5

underground location

areas or rooms whose ground or floor is on all sides lower than the adjacent ground surfaces