

Kryogénne nádoby. Prepravné vákuom izolované nádoby s objemom do 1 000 litrov vrátane. Časť 2: Prevádzkové požiadavky (ISO 21029-2: 2015).

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Cryogenic vessels - Transportable vacuum insulated vessels of not more than 1 000 litres volume - Part 2: Operational requirements (ISO 21029-2:2015)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/16

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English Version

Cryogenic vessels - Transportable vacuum insulated vessels of not more than 1 000 litres volume - Part 2: Operational requirements (ISO 21029-2:2015)

Récipients cryogéniques - Récipients transportables, isolés, sous vide, d'un volume n'excédant pas 1 000 litres - Partie 2: Exigences de fonctionnement (ISO 21029-2:2015)

Kryo-Behälter - Ortsbewegliche vakuumisolierte Behälter mit einem Fassungsraum von nicht mehr als 1 000 Liter - Teil 2: Betriebsanforderungen (ISO 21029-2:2015)

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EN ISO 21029-2:2015 (E)

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European foreword

This document (EN ISO 21029-2:2015) has been prepared by Technical Committee ISO/TC 220 "Cryogenic vessels" in collaboration with Technical Committee CEN/TC 268 "Cryogenic vessels and specific hydrogen technologies applications" 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of an identical text or by endorsement, at the latest by March 2016, and conflicting national standards shall be withdrawn at the latest by March 2016.

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Endorsement notice

The text of ISO 21029-2:2015 has been approved by CEN as EN ISO 21029-2:2015 without any modification.

INTERNATIONAL STANDARD

ISO 21029-2

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

Part 2: **Operational requirements**

Récipients cryogéniques — Récipients transportables, isolés, sous vide, d'un volume n'excédant pas 1 000 litres —

Partie 2: Exigences de fonctionnement



ISO 21029-2:2015(E)



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 220, Cryogenic vessels.

This second edition cancels and replaces the first edition (ISO 21029-2:2004), which has been technically revised.

ISO 21029 consists of the following parts, under the general title *Cryogenic vessels* — *Transportable vacuum insulated vessels of not more than 1 000 l volume:*

- Part 1: Design, fabrication, inspection and tests
- Part 2: Operational requirements

Introduction

Elements of this part of ISO 21029 support the requirements of the UN Recommendations on the Transport of Dangerous Goods and other international, national, or local requirements.

Some requirements of this International Standard may be covered by local regulations, e.g. safety distances, occupational safety and health.

Where there is a conflict between the requirements of this International Standard and any applicable local regulation, the local regulation always takes precedence.

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

Part 2:

Operational requirements

1 Scope

This part of ISO 21029 specifies operational requirements for transportable vacuum insulated cryogenic vessels of not more than 1 000 l 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 cryogenic vessels designed for personal medical use, other requirements can apply.

The scope includes putting into service, filling, withdrawal, transport within the location, storage, maintenance, periodic inspection, and emergency procedures.

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

Transportable cryogenic vessels of not more than 1 000 l volume are often partly equipped by the manufacturer, but can be installed or re-installed by another party, such as the operator or owner. For this reason, some of the scope of this part of ISO 21029, which includes putting into service, inspection, filling, maintenance, and emergency procedure, overlaps with ISO 21029-1.

2 Normative references

The following referenced 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.

ISO 21010, Cryogenic vessels — Gas/materials compatibility

ISO 23208, Cryogenic vessels — Cleanliness for cryogenic service

koniec náhľadu – text ďalej pokračuje v platenej verzii STN