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Kryogene beholdere – Renhed efter rengøring

Cryogenic vessels – Cleanliness for cryogenic service (ISO 23208:2017)

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DS projekt: M327169

ICS: 23.020.40

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EUROPÄISCHE NORM

March 2019

ICS 23.020.40

Supersedes EN 12300:1998

English Version

Cryogenic vessels - Cleanliness for cryogenic service (ISO 23208:2017)

Réipients cryogéniques - Propreté en
service cryogénique (ISO 23208:2017)

Kryo-Behälter - Reinheit für den
tiefkalten Betrieb (ISO 23208:2017)

This European Standard was approved by CEN on 11 February 2019.

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European foreword

The text of [ISO 23208:2017](#) has been prepared by Technical Committee ISO/TC 220 "Cryogenic vessels" of the International Organization for Standardization (ISO) and has been taken over as [EN ISO 23208:2019](#) by 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of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes [EN 12300:1998](#).

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

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Endorsement notice

The text of [ISO 23208:2017](#) has been approved by CEN as [EN ISO 23208:2019](#) without any modification.

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Second edition
2017-04-01

Cryogenic vessels — Cleanliness for cryogenic service

Réipients cryogéniques — Propreté en service cryogénique



Reference number
ISO 23208:2017(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 voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 220, *Cryogenic vessels*.

This second edition cancels and replaces the first edition ([ISO 23208:2005](http://www.iso.org/iso/23208:2005)), which has been technically revised. The main changes are in [4.1](#).

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Cryogenic vessels — Cleanliness for cryogenic service

1 Scope

This document specifies the minimum requirements for the cleanliness of all surfaces of cryogenic vessels and associated accessories that are in contact with the cryogenic fluid at any expected operating conditions.

This document defines the acceptable level of surface and particle contamination to minimize the risk of malfunction of equipment and ensure safety against ignition when in contact with oxygen or oxidizing fluids (see [ISO 10156](#)).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

[ISO 21010](#), *Cryogenic vessels — Gas/materials compatibility*