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**ISO 1496-3**

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# Series 1 freight containers — Specification and testing —

## Part 3: Tank containers for liquids, gases and pressurized dry bulk

*Conteneurs de la série 1 — Spécifications et essais —*

*Partie 3: Conteneurs-citernes pour les liquides, les gaz et les produits solides en vrac pressurisés*

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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 104, *Freight containers*, Subcommittee SC 2, *Specific purpose containers*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This fifth edition cancels and replaces the fourth edition (ISO 1496-3:1995) which has been technically revised. It also incorporates the Amendment ISO 1496-3:1995/Amd 1:2006. The main changes compared to the previous edition are as follows:

— the container type codes have been revised in accordance to ISO 6346;

— the ratings and stacking forces have been revised in accordance to ISO 668;

— the load transfer areas of base structure have been referenced to ISO 668;

— the stacking test no. 1 ratings have been revised in accordance with ISO 668;

— the insulation thermal test has been referenced to ISO 1496-2.

A list of all parts in the ISO 1496 series can be found on the ISO website.

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# Series 1 freight containers — Specification and testing —

# Part 3: Tank containers for liquids, gases and pressurized dry bulk

## 1 Scope

This document specifies the basic specifications and testing requirements for ISO series 1 tank containers suitable for the carriage of gases, liquids and solid substances (dry bulk) which can be loaded or unloaded as liquids by gravity or pressure discharge, for international exchange and for conveyance by road, rail and sea, including interchange between these forms of transport.

Except where otherwise stated, the requirements of this document are minimum requirements.

The container types covered by this document are given in Table 1.

**Table 1 — Container types (in accordance with ISO 6346:1995/Amd 3:2012, Table E1)**

| Code | Type designation | Type group code |
|---|---|---|
| K | Pressurized tank containers (liquids and gases) | KL |
| N | Pressurized and non-pressurized tank containers (dry) | NH<br>NN<br>NP |

The marking requirements for these containers are given in ISO 6346.

## 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 668, *Series 1 freight containers — Classification, dimensions and ratings*

ISO 830, *Freight containers — Vocabulary*

ISO 1161, *Series 1 freight containers — Corner fittings — Specification*

ISO 6346, *Freight containers — Coding, identification and marking*

ISO 6487, *Road vehicles — Measurement techniques in impact tests — Instrumentation*

EN 13374, *Temporary edge protection systems — Product specification — Test methods*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 830 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

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