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Freight containers — Mechanical seals

Conteneurs pour le transport de marchandises — Scellés mécaniques



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 17712 was prepared by Technical Committee ISO/TC 104, *Freight containers*.

This second edition cancels and replaces the first edition (ISO 17712:2010), which has been technically revised.

Freight containers — Mechanical seals

1 Scope

This International Standard establishes uniform procedures for the classification, acceptance, and withdrawal of mechanical freight container seals. It provides a single source of information on mechanical seals which are acceptable for securing freight containers in international commerce.

NOTE The purpose of mechanical seals is, as part of a security system, to determine whether a freight container has been tampered with, i.e. whether there has been unauthorized entry into the container through its doors. Seals can be effective only if seal users properly select, store, account for, apply, document, and attend to seals prior to use and in use; while these issues are not addressed in this International Standard, they are relevant to successful use of the seals covered by this International Standard.

Seals that conform to this International Standard are suitable for other applications, such as bulk railcars or truck trailers used in cross-border and domestic operations. Users and regulatory agencies can apply this International Standard to other applications as they deem appropriate.

2 Normative references

The following 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/IEC 15417, *Information technology — Automatic identification and data capture techniques — Code 128 bar code symbology specification*

ISO/IEC 17020, *Conformity assessment — Requirements for the operation of various types of bodies performing inspection*

ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 General terms

3.1.1

seal

mechanical device marked with a unique identifier and usually designed for a single use, which is externally affixed to the container doors and designed to evidence tampering or intrusion through the doors of a container and to secure closed doors of a container

Note 1 to entry: Depending on its design and construction, the seal provides varying degrees of resistance to an intentional or unintentional attempt to open it or to enter the freight container through the container doors.

Note 2 to entry: Seals need to be designed and constructed so that tamper attempts create and leave evidence of that tampering.

Note 3 to entry: All grades and types of seals require inspection to indicate whether tampering has occurred or entry has been attempted.