



**SLOVENSKI STANDARD
SIST EN ISO 15750-3:2022**

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Nadomešča:

SIST EN ISO 15750-3:2008

Embalaža - Jekleni sodi - 3. del: Sistemi zapiranja z vstavljenim obročem (ISO 15750-3:2022)

Packaging - Steel drums - Part 3: Inserted flange-type closure systems (ISO 15750-3:2022)

Verpackung - Stahlfässer - Teil3: Verschlusssysteme mit eingesetztem Flansch (ISO 15750-3:2022)

Emballages - Fûts en acier - Partie 3: Systèmes de fermeture à colerette (filetée) sertie (ISO 15750-3:2022)

Ta slovenski standard je istoveten z: EN ISO 15750-3:2022

ICS:

55.140 Sodi. Kovinski sodi. Ročke Barrels. Drums. Canisters

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EUROPEAN STANDARD

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Supersedes EN ISO 15750-3:2008

English Version

Packaging - Steel drums - Part 3: Inserted flange-type closure systems (ISO 15750-3:2022)

Emballages - Fûts en acier - Partie 3: Systèmes de fermeture à collerette (filetée) sertie (ISO 15750-3:2022)

Verpackung - Stahlfässer - Teil3: Verschlussysteme mit eingesetztem Flansch (ISO 15750-3:2022)

This European Standard was approved by CEN on 3 January 2022.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN ISO 15750-3:2022) has been prepared by Technical Committee ISO/TC 122 "Packaging" in collaboration with Technical Committee CEN/TC 261 "Packaging" 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of an identical text or by endorsement, at the latest by February 2023, and conflicting national standards shall be withdrawn at the latest by February 2023.

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 ISO 15750-3:2008.

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Endorsement notice

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The text of ISO 15750-3:2022 has been approved by CEN as EN ISO 15750-3:2022 without any modification.

INTERNATIONAL
STANDARD

ISO
15750-3

Second edition
2022-05

Packaging — Steel drums —

**Part 3:
Inserted flange-type closure systems**

Emballages — Fûts en acier —

Partie 3: Systèmes de fermeture à collerette (filetée) sertie

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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 122, *Packaging*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 261, *Packaging*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 15750-3:2002), which has been technically revised.

The main changes are as follows:

- in [4.3](#), finish of the flanges, steel plugs, label rings and protection rings can now be chosen between the purchaser and the supplier;
- in [Annex C](#), the configuration and dimensions of zinc-alloy die cast plugs were deleted due to obsolescence;
- in [C.1](#), [Figure C.1](#), the zinc-alloy plug is obsolete and has been replaced with the steel plug;
- in [C.7](#), materials of washers for flanges and plugs can now be agreed between the purchaser and the supplier.

A list of all parts in the ISO 15750 series can be found on the ISO website.

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.

Packaging — Steel drums —

Part 3: Inserted flange-type closure systems

1 Scope

This document specifies the characteristics, dimensions and finish of the inserted flange-type closure systems used for steel drums.

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 228-1, *Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation*

ISO 228-2, *Pipe threads where pressure-tight joints are not made on the threads — Part 2: Verification by means of limit gauges*

ISO 3573, *Hot-rolled carbon steel sheet of commercial and drawing qualities*

ISO 3574, *Cold-reduced carbon steel sheet of commercial and drawing qualities*

ISO 5002, *Hot-rolled and cold-reduced electrolytic zinc-coated carbon steel sheet of commercial and drawing qualities*

ISO 11949, *Cold-reduced tinmill products — Electrolytic tinplate*

ISO 11950, *Cold-reduced tinmill products — Electrolytic chromium/chromium oxide-coated steel*

3 Terms and definitions

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

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

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

inserted flange-type closure

mechanical fixed steel insert with threads, closable with plugs made of steel, other metals or synthetic materials such as plastics, ensuring a leaktight closing in drums

3.2

elastomer

macromolecular material which returns rapidly to its initial dimensions and shape after substantial deformation by a weak stress and release of the stress

[SOURCE: ISO 472:2013, 2.327, modified — Note 1 to entry has been deleted.]

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3.3

thermoplastics

plastics that are capable of being repeatedly softened by heating and hardened by cooling through a temperature range characteristic of the plastics and, in the softened state, of being repeatedly shaped by flow into articles by moulding, extrusion or forming

4 Dimensions, materials and finish

4.1 The nominal pitch diameter and the pitch of the thread of the closures G 2 and G 3/4 shall conform to ISO 228-1.

These closures shall fit GO gauges conforming to ISO 228-2.

4.2 The dimensions and materials of the closure systems shall be in accordance with the relevant annexes for the closure type, i.e.:

- [Annex A](#): octagonal base closure system (type A closure);
- [Annex B](#): serrated base closure system (type B closure);
- [Annex C](#): octagonal (G 2)/hexagonal (G 3/4) base closure system (type C closure).

4.3 The finish of the flanges, steel plugs, label rings and protection rings shall be chosen and agreed between the purchaser and the supplier.

If for reasons of compatibility another finish of the closure system is required, the nature of the internal and external finish should be agreed upon between the purchaser and the supplier.

5 Design and construction

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5.1 Flanges

The flanges shall be the mechanical inserted type and shall make a leaktight fit when inserted.

5.2 Plugs

The plugs shall be designed so that they can be inserted or removed by means of a simple tool.

The plugs shall have a wrenching insert projection welded to the bottom of the sump of the plug or have a wrenching device formed as part of the plug.

The dimensions of the wrenching insert shall be such that the plugs can be operated by a universal tool for steel and plastics plugs. Examples are shown in [Annex D](#).

For recommended closing torques, see [Annex E](#).

5.3 Capseals and overseals

Capseals or overseals, when fitted, shall be the manual or pneumatic crimping type and shall have provisions for customs sealing and evidence of tampering.

Capseals/overseals shall be so designed that they can be removed by means of a simple tool.

5.4 Label rings and protection rings

Label rings and/or protection rings shall be designed so that, when fitted, they can be mechanically inserted simultaneously with the flanges. Label rings shall have provisions for customs sealing.

NOTE Label rings and/or protection rings can provide adequate reinforcement for the flange insertion and can protect the drum stock neck against corrosion.

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