



SLOVENSKI STANDARD SIST EN ISO 8331:2014

01-julij-2014

Nadomešča:
SIST EN ISO 8331:2012

Gumene in polimerne cevi ter cevni priključki - Smernice za izbiro, skladiščenje, uporabo in vzdrževanje (ISO 8331:2014)

Rubber and plastics hoses and hose assemblies - Guidelines for selection, storage, use and maintenance (ISO 8331:2014)

Gummi- und Kunststoffschläuche und -schlauchleitungen - Richtlinien für die Auswahl, Lagerung, Verwendung und Wartung (ISO 8331:2014)

Tuyaux et flexibles en caoutchouc et en plastique - Lignes directrices pour la sélection, le stockage, l'utilisation et la maintenance (ISO 8331:2014)

Ta slovenski standard je istoveten z: EN ISO 8331:2014

ICS:

83.140.40 Gumene cevi Hoses

SIST EN ISO 8331:2014 en

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NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 8331

April 2014

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English Version

Rubber and plastics hoses and hose assemblies - Guidelines for selection, storage, use and maintenance (ISO 8331:2014)

Tuyaux et flexibles en caoutchouc et en plastique - Lignes directrices pour la sélection, le stockage, l'utilisation et la maintenance (ISO 8331:2014)

Gummi- und Kunststoffschläuche und -schlauchleitungen - Richtlinien für die Auswahl, Lagerung, Verwendung und Wartung (ISO 8331:2014)

This European Standard was approved by CEN on 15 February 2014.

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Foreword

This document (EN ISO 8331:2014) has been prepared by Technical Committee ISO/TC 45 "Rubber and rubber products" in collaboration with Technical Committee CEN/TC 218 "Rubber and plastics hoses and hose assemblies" the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by October 2014, and conflicting national standards shall be withdrawn at the latest by October 2014.

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

This document supersedes EN ISO 8331:2011.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 8331:2014 has been approved by CEN as EN ISO 8331:2014 without any modification.

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INTERNATIONAL
STANDARD

ISO
8331

Third edition
2014-04-01

**Rubber and plastics hoses and hose
assemblies — Guidelines for selection,
storage, use and maintenance**

*Tuyaux et flexibles en caoutchouc et en plastique — Lignes directrices
pour la sélection, le stockage, l'utilisation et la maintenance*

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ISO 8331:2014(E)

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. 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. 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 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 45, *Rubber and rubber products*, Subcommittee SC 1, *Hoses (rubber and plastics)*.

This third edition cancels and replaces the second edition (ISO 8331:2007), which has been technically revised. The following principal changes have been made:

- [Subclause 3.2.2](#): reference to ISO 2230 for long-term storage was deleted and recommendations for bulk hoses and hose assemblies were added;
- [Subclause 3.2.3](#): “hose assembly” was added;
- [Subclause 3.2.4](#): requirement for polyurethane products was added;
- [Subclause 4.3](#): the requirement to examine the lining of steam hoses before re-use after a storage period was added;
- [Subclause 4.9](#): reference to ISO/TS 17165-2:2013, Clause 9 was added and 9.2.2 of that Technical Specification was copied to specify conditions for long-term storage of hydraulic hoses;
- Bibliography: reference to the OCIMF Guide was updated.

Rubber and plastics hoses and hose assemblies — Guidelines for selection, storage, use and maintenance

1 Scope

This International Standard sets out recommendations designed to maintain rubber and plastics hoses and hose assemblies, prior to use, in a condition as close as possible to the condition they were in when they were received and to obtain the expected service life.

NOTE It is intended that this International Standard be used in conjunction with any applicable national statutory regulations.

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 1402, *Rubber and plastics hoses and hose assemblies — Hydrostatic testing*

ISO 2230, *Rubber products — Guidelines for storage*

ISO 8031, *Rubber and plastics hoses and hose assemblies — Determination of electrical resistance and conductivity*

ISO/TS 17165-2:2013, *Hydraulic fluid power — Hose assemblies — Part 2: Practices for hydraulic hose assemblies*

3 General recommendations

3.1 Selection criteria

It is in the best interests of the user to select hoses or hose assemblies complying with national or international standards whenever such standards exist for the intended application. For applications outside the scope of such standards, needing special requirements or for which the necessary information is not available, the hose manufacturer or trade association should be consulted.

The following points should be taken into consideration when selecting a hose or hose assembly for a specific application:

- a) Operational environment:
 - ambient temperature;
 - atmospheric conditions;
 - contact with chemically aggressive liquids;
 - contact with other deleterious media.
- b) Media conveyed:
 - liquid;
 - gaseous;