

SLOVENSKI STANDARD

SIST EN ISO 8031:2020

01-oktober-2020

Nadomešča:

SIST EN ISO 8031:2010

Gumene in polimerne cevi ter cevni priključki - Ugotavljanje električne upornosti in prevodnosti (ISO 8031:2020)

Rubber and plastics hoses and hose assemblies - Determination of electrical resistance and conductivity (ISO 8031:2020)

Gummi- und Kunststoffschläuche und Schlauchleitungen - Bestimmung des elektrischen Widerstands und der elektrischen Leitfähigkeit (ISO 8031:2020)

Tuyaux et flexibles en caoutchouc et en plastique - Détermination de la résistance et de la conductivité électriques (ISO 8031:2020)

Ta slovenski standard je istoveten z: EN ISO 8031:2020

ICS:

23.040.70	Gumene cevi in armature	Hoses and hose assemblies
83.140.40	Gumene cevi	Hoses

SIST EN ISO 8031:2020

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 8031

July 2020

ICS 23.040.70

Supersedes EN ISO 8031:2009

English Version

**Rubber and plastics hoses and hose assemblies -
Determination of electrical resistance and conductivity
(ISO 8031:2020)**

Tuyaux et flexibles en caoutchouc et en plastique -
Détermination de la résistance et de la conductivité
électriques (ISO 8031:2020)

Gummi- und Kunststoffschläuche und
Schlauchleitungen - Bestimmung des elektrischen
Widerstands und der elektrischen Leitfähigkeit (ISO
8031:2020)

This European Standard was approved by CEN on 12 June 2020.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 8031:2020) 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 January 2021, and conflicting national standards shall be withdrawn at the latest by January 2021.

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.

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INTERNATIONAL STANDARD

**ISO
8031**

Fourth edition
2020-06

Rubber and plastics hoses and hose assemblies — Determination of electrical resistance and conductivity

*Tuyaux et flexibles en caoutchouc et en plastique — Détermination de
la résistance et de la conductivité électriques*

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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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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 45, *Rubber and rubber products*, Subcommittee SC 1, *Rubber and plastics hoses and hose assemblies*.

This fourth edition cancels and replaces the third edition (ISO 8031:2009), of which it constitutes a minor revision.

The main change compared to the previous edition is that the normative references have been updated.

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.

Introduction

This edition of ISO 8031 addresses the problems encountered in field testing and during product acceptance tests in a production facility in following the test procedures specified in ISO 8031:1993 and a more practical approach is suggested. Also, a test procedure for determining electrical continuity between the end fittings of a hose assembly without actually measuring the resistance has been introduced. This test is frequently carried out in the field and in the factory when the product standard does not require the exact electrical resistance to be measured, but only requires verification of electric conductivity between both metal end fittings.

Special test methods to determine the electrical resistance through the hose wall (now required in some product standards for hoses used in explosive atmospheres) have been added.

Some test methods which have been a standard practice in the hose industry for some time have now been included, as have several new methods to determine the ability of a hose assembly (with metal end fittings) to dissipate static electric charges when the metal end fitting is connected to earth. A total of four new explanatory sketches are included. The hose and hose assembly product standard applicable will have to specify which method is most suitable for the purpose of verification of the required property.

[Annex A](#), an amended version of ISO 8330:2007, Annex A, has been included.

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