

Rubber and/or plastics hoses and hose assemblies for  
airless paint spraying - Specification (ISO 8028:2017)

## EESTI STANDARDI EESSÕNA

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ICS 23.040.70, 87.100

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English Version

## Rubber and/or plastics hoses and hose assemblies for airless paint spraying - Specification (ISO 8028:2017)

Tuyaux et flexibles en caoutchouc et/ou en plastique  
pour pulvérisation (AIRLESS) des peintures -  
Spécifications (ISO 8028:2017)

Gummi- und/oder Kunststoffschläuche und -  
schlauchleitungen für das luftfreie Farbspritzen -  
Spezifikation (ISO 8028:2017)

This European Standard was approved by CEN on 26 November 2017.

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  
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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

## European foreword

This document (EN ISO 8028:2018) has been prepared by Technical Committee ISO/TC 45/SC 1 “Rubber and plastics hoses and hose assemblies” 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of an identical text or by endorsement, at the latest by July 2018, and conflicting national standards shall be withdrawn at the latest by July 2018.

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 8028:2000.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

### Endorsement notice

The text of ISO 8028:2017 has been approved by CEN as EN ISO 8028:2018 without any modification.

# Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Types of hose and hose assemblies</b> .....	<b>2</b>
<b>5 Construction and materials</b> .....	<b>2</b>
<b>6 Dimensions and tolerances</b> .....	<b>2</b>
<b>7 Performance requirements for finished hose</b> .....	<b>2</b>
7.1 Adhesion requirements.....	2
7.2 Ultraviolet resistance (plastics cover only).....	3
7.3 Resistance to ozone (rubber cover only).....	3
<b>8 Performance requirements for finished hose and hose assemblies</b> .....	<b>3</b>
8.1 Hydrostatic requirements.....	3
8.2 Impulse test requirements.....	3
8.3 Electrical-continuity requirements.....	3
<b>9 Physical requirements of lining for hose only</b> .....	<b>4</b>
<b>10 Frequency of testing</b> .....	<b>4</b>
<b>11 Type testing</b> .....	<b>4</b>
<b>12 Test report</b> .....	<b>4</b>
<b>13 Marking</b> .....	<b>4</b>
<b>14 Recommendations for packaging and storage</b> .....	<b>5</b>
<b>Annex A (normative) Type test and routine test</b> .....	<b>6</b>
<b>Annex B (informative) Test frequency for production acceptance tests</b> .....	<b>7</b>
<b>Bibliography</b> .....	<b>8</b>

## 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](http://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 on 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 the following URL: [www.iso.org/iso/foreword.html](http://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 third edition cancels and replaces the second edition (ISO 8028:1999), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the scope has been re-defined;
- the normative references have been updated accordingly;
- [Clause 5](#) has been re-written to better define construction and materials;
- [7.1](#) has been re-written;
- the clause on electrical properties has been revised and updated to reflect changes in test methods;
- new [Clauses 10](#) and [11](#) were added;
- a new [Clause 14](#) was added;
- [Annexes A](#) and [B](#) have been revised to reflect hose and hose assembly tests.

# Rubber and/or plastics hoses and hose assemblies for airless paint spraying — Specification

**WARNING** — Persons using this document should be familiar with normal laboratory practice. This document does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices.

## 1 Scope

This document specifies the requirements for four types of hose and hose assemblies for use in airless paint spraying. The four types are differentiated by burst pressure and operating temperature, and can be constructed from rubber or plastic materials, or a combination of rubber and plastic material.

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

ISO 1817:2015, *Rubber, vulcanized or thermoplastic — Determination of the effect of liquids*

ISO 6803, *Rubber or plastics hoses and hose assemblies — Hydraulic-pressure impulse test without flexing*

ISO 7326:2016, *Rubber and plastics hoses — Assessment of ozone resistance under static conditions*

ISO 7751, *Rubber and plastics hoses and hose assemblies — Ratios of proof and burst pressure to maximum working pressure*

ISO 8031:2009, *Rubber and plastics hoses and hose assemblies — Determination of electrical resistance and conductivity*

ISO 8033, *Rubber and plastics hoses — Determination of adhesion between components*

ISO 8330, *Rubber and plastics hoses and hose assemblies — Vocabulary*

ISO 23529, *Rubber — General procedures for preparing and conditioning test pieces for physical test methods*

ISO 30013:2011, *Rubber and plastics hoses — Methods of exposure to laboratory light sources — Determination of changes in colour, appearance and other physical properties*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 8330 apply.

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

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