
Gumene cevi in cevni priključki, ojačeni z žicami ali tekstilom, za uporabo v vodnem bagru - Zahteve (ISO 28017:2011)

Rubber hoses and hose assemblies, wire or textile reinforced, for dredging applications - Specification (ISO 28017:2011)

Schläuche und Schlauchleitungen, Draht oder Textil verstärkt für den Nassbaggeranwendungen - Anforderungen (ISO 28017:2011)

Tuyaux et flexibles en caoutchouc, à armature textile ou métallique, pour des applications de dragage - Spécifications (ISO 28017:2011)

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Ta slovenski standard je istoveten z: EN ISO 28017:2011

ICS:

83.140.40 Gumene cevi Hoses

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 28017

November 2011

ICS 83.140.40

English Version

**Rubber hoses and hose assemblies, wire or textile reinforced,
for dredging applications - Specification (ISO 28017:2011)**

Tuyaux et flexibles en caoutchouc, à armature textile ou
métallique, pour des applications de dragage -
Spécifications (ISO 28017:2011)

Gummischläuche und Schlauchleitungen, Draht- oder
Textilverstärkt, für Nassbaggeranwendungen - Anforderung
(ISO 28017:2011)

This European Standard was approved by CEN on 14 November 2011.

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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Foreword

This document (EN ISO 28017:2011) 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of an identical text or by endorsement, at the latest by May 2012, and conflicting national standards shall be withdrawn at the latest by May 2012.

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.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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INTERNATIONAL STANDARD

ISO
28017

Second edition
2011-11-15

Rubber hoses and hose assemblies, wire or textile reinforced, for dredging applications — Specification

*Tuyaux et flexibles en caoutchouc, à armature textile ou métallique,
pour des applications de dragage — Spécifications*

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ISO 28017:2011(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.

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 28017 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 1, *Hoses (rubber and plastics)*.

This second edition cancels and replaces the first edition (ISO 28017:2009), which has been technically revised. The main changes are the following:

- 5.1: minimum lining thicknesses have been specified for hoses of different nominal sizes;
- 5.2: additional requirements have been specified for flotation materials;
- Clause 6: tighter tolerances have been specified for the inside diameters of all nominal sizes;
- 7.1.2: requirements have been included for the tear strength of the hose lining;
- 7.1.3: requirements have been included for the rebound resilience properties of the hose lining;
- 7.2.5: the requirements concerning minimum reserve buoyancy have been made clearer;
- 7.2.6: the flotation material recovery test procedure has been made clearer;
- 7.2.9: requirements have been included for the minimum tensile strength of empty hose assemblies;
- 7.3: a more detailed description of type test requirements has been given;
- Annex A: a tear strength test and a rebound resilience test of the lining compound have been included, as well as a tensile-strength test on empty hose assemblies;
- a new annex (Annex C) specifying a tensile-strength test has been added.

Rubber hoses and hose assemblies, wire or textile reinforced, for dredging applications — Specification

1 Scope

This International Standard specifies requirements for two types, seven classes and three grades of wire- or textile-reinforced dredging hoses with nominal sizes ranging from 100 to 1 200. Within each class, all grades and sizes have the same maximum working pressure. Such hoses are suitable for the delivery or suction of seawater or freshwater mixed with silt, sand, coral and small stones with a specific gravity in the range from 1,0 to 2,3 at ambient temperatures ranging from $-10\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$.

This International Standard covers two types of hose, as follows:

- type 1: floating type, for delivery only, which includes flotation material to give the hose buoyancy;
- type 2: submarine type for delivery and suction.

This International Standard does not specify requirements concerning the service life of hoses or hose assemblies. Specifying such requirements is the responsibility of the customer, in consultation with the hose manufacturer.

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2 Normative references

The following referenced documents are indispensable for the application 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 34-1:2010, *Rubber, vulcanized or thermoplastic — Determination of tear strength — Part 1: Trouser, angle and crescent test pieces*

ISO 34-2:2011, *Rubber, vulcanized or thermoplastic — Determination of tear strength — Part 2: Small (Delft) test pieces*

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

ISO 1431-1, *Rubber, vulcanized or thermoplastic — Resistance to ozone cracking — Part 1: Static and dynamic strain testing*

ISO 4649:2010, *Rubber, vulcanized or thermoplastic — Determination of abrasion resistance using a rotating cylindrical drum device*

ISO 4662:2009, *Rubber, vulcanized or thermoplastic — Determination of rebound resilience*

ISO 4671, *Rubber and plastics hoses and hose assemblies — Methods of measurement of the dimensions of hoses and the lengths of hose assemblies*

ISO 7233:2006, *Rubber and plastics hoses and hose assemblies — Determination of resistance to vacuum*

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

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

ISO 8331, *Rubber and plastics hoses and hose assemblies — Guidelines for selection, storage, use and maintenance*

ISO 10619-1, *Rubber and plastics hoses and tubing — Measurement of flexibility and stiffness — Part 1: Bending tests at ambient temperature*