

Irish Standard I.S. EN ISO 6806:2014

Rubber hoses and hose assemblies for use in oil burners - Specification (ISO 6806:2014)

#### I.S. EN ISO 6806:2014

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#### **English Version**

### Rubber hoses and hose assemblies for use in oil burners - Specification (ISO 6806:2014)

Tuyaux et fexibles en caoutchouc pour brûleurs -Spécifications (ISO 6806:2014) Gummischläuche und Schlauchleitungen für den Einsatz in Ölbrennern - Anforderung (ISO 6806:2014)

This European Standard was approved by CEN on 7 June 2014.

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EN ISO 6806:2014 (E)

#### **Foreword**

This document (EN ISO 6806:2014) 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of an identical text or by endorsement, at the latest by March 2015, and conflicting national standards shall be withdrawn at the latest by March 2015.

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.

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The text of ISO 6806:2014 has been approved by CEN as EN ISO 6806:2014 without any modification.

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# INTERNATIONAL STANDARD

ISO 6806

Third edition 2014-09-15

## Rubber hoses and hose assemblies for use in oil burners — Specification

Tuyaux et flexibles en caoutchouc pour brûleurs — Spécifications



Reference number ISO 6806:2014(E)



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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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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

 $The committee \, responsible \, for this \, document is \, ISO/TC\, 45, {\it Rubber \, and \, rubber \, products}, Subcommittee \, SC\, 1, \, {\it Hoses \, (rubber \, and \, plastics)}.$ 

This third edition cancels and replaces the second edition (ISO 6806:1992), of which it constitutes a minor revision.

The following changes (mainly editorial) were made as required to bring the standard up to date.

- Clause 2 (Normative references) has been updated where necessary. Reference to ISO 4672 has been replaced by ISO 10619-2 and the new titles of ISO 1307, ISO 1436 and ISO 4671 have been quoted.
- Wherever necessary the terminology has been amended to conform to ISO 8330.
- New <u>Clause 7</u> (Frequency of testing) and <u>Clause 8</u> (Type tests) have been introduced; new <u>Annexes A</u> and <u>B (Tables A.1</u> and <u>B.1</u>) have been introduced to standardize the frequency of the tests already required in the previous edition (ISO 6806:1992).
- Clause 9 (Marking) has been amended (maximum working pressure and date of publication of this International Standard to be marked on hose).
- No technical changes from requirements already specified in the second edition (ISO 6806:1992) have been made.

### Rubber hoses and hose assemblies for use in oil burners — Specification

#### 1 Scope

This International Standard specifies the minimum requirements for rubber hoses and hose assemblies for use in oil burners.

The following two types of hose assembly are specified.

- Type 1: Hose assemblies for flux and reflux, but not for insertion between the oil burner pump and the atomizing connection; maximum working pressure 1,0 MPa (10 bar); maximum oil temperature 100 °C.
- Type 2: Hose assemblies for insertion between the oil burner pump and the atomizing connection; working pressure 4,0 MPa (40 bar); maximum oil temperature 100 °C.

NOTE The hose assemblies specified in this International Standard are not intended to be used, without special assessment, for purposes other than oil burner installations.

#### 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 37, Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties

ISO 48, Rubber, vulcanized or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD)

ISO 188, Rubber, vulcanized or thermoplastic — Accelerated ageing and heat resistance tests

ISO~1307, Rubber~and~plastics~hoses -- Hose~sizes, minimum~and~maximum~inside~diameters, and~tolerances~on~cut-to-length~hoses

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

ISO 1436, Rubber hoses and hose assemblies — Wire-braid-reinforced hydraulic types for oil-based or water-based fluids — Specification

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

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

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

ISO 10619-2:2011, Rubber and plastics hoses and tubing — Measurement of flexibility and stiffness — Part 2: Bending tests at sub-ambient temperatures

#### 3 Construction

Hoses in accordance with this International Standard shall consist of either:

a) an internally smooth rubber lining and an external corrosion-resistant metal braid; or



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