

SLOVENSKI STANDARD SIST EN ISO 5774:2009

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BUXca Yý U. SIST EN ISO 5774:2000

Polimerne cevi - S tekstilom okrepljene cevi za zrak pod pritiskom - Specifikacija (ISO 5774:2006)

Plastics hoses - Textile-reinforced types for compressed-air applications - Specification (ISO 5774:2006)

Kunststoffschläuche - Textilverstärkte Typen für Druckluftanwendungen - Spezifikation (ISO 5774:2006) (standards.iteh.ai)

Tuyaux en plastique - Types armés <u>de textile pour applications</u> avec de l'air comprimé - Spécifications (ISO 5774:2006) itch ai/catalog/standards/sist/flc800d6-f52b-4425-983c-8e4bcc8d79ed/sist-en-iso-5774-2009

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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English Version

Plastics hoses - Textile-reinforced types for compressed-air applications - Specification (ISO 5774:2006)

Tuyaux en plastique - Types armés de textile pour applications avec de l'air comprimé - Spécifications (ISO 5774:2006)

Kunststoffschläuche - Textilverstärkte Typen für Druckluftanwendungen - Spezifikation (ISO 5774:2006)

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Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 5774:2008 (E)

Foreword

The text of ISO 5774:2006 has been prepared by Technical Committee ISO/TC 45 "Rubber and rubber products" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 5774:2008 by 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of an identical text or by endorsement, at the latest by July 2008, and conflicting national standards shall be withdrawn at the latest by July 2008.

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 5774:2006 has been approved by CEN as ENISO 5774:2008 without any modifications.

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INTERNATIONAL STANDARD

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Plastics hoses — Textile-reinforced types for compressed-air applications — Specification

Tuyaux en plastique — Types armés de textile pour applications avec de l'air comprimé — Spécifications

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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.

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 5774 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 1, *Hoses (rubber and plastics)*.

This third edition cancels and replaces the second edition (ISO 5774:1997), which has been technically revised.

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ISO 5774:2006(E)

Introduction

This International Standard has been prepared to provide minimum acceptable requirements for the satisfactory performance of flexible thermoplastics hoses, textile reinforced, for compressed-air applications.

Maximum working pressures of each hose type are specified with two operating temperatures.

Some hose materials will require a hydrolysis test (given in Annex A).

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Plastics hoses — Textile-reinforced types for compressed-air applications — Specification

1 Scope

This International Standard specifies the requirements for four types of flexible thermoplastic hose, textile reinforced, for compressed-air applications in the temperature range from -10 °C to +60 °C.

The four types are classified as light service for a maximum working pressure of 7 bar at 23 °C and 4,5 bar at 60 °C, medium service for a maximum working pressure of 10 bar at 23 °C and 6,5 bar at 60 °C, heavy service for a maximum working pressure of 16 bar at 23 °C and 11 bar at 60 °C, and heavy service for use in mining for a maximum working pressure of 25 bar at 23 °C and 13 bar at 60 °C.

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 10.110.

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

https://standards.iteh.ai/catalog/standards/sist/flc800d6-f52b-4425-983c-ISO 105-A02, Textiles — Tests for colour fastness,—Part A02; Grey scales for assessing change in colour

ISO 176:2005, Plastics — Determination of loss of plasticizers — Activated carbon method

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 1746, Rubber or plastics hoses and tubing — Bending tests

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

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

ISO 4672:1997, Rubber and plastics hoses — Sub-ambient temperature flexibility tests

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 — Guide to selection, storage, use and maintenance

ISO 11758:1995, Rubber and plastics hoses — Exposure to a xenon arc lamp — Determination of changes in colour and appearance