INTERNATIONAL STANDARD

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Plastics hose — General-purpose collapsible water hose, textile-reinforced — Specification

Tuyaux plastiques — Tuyaux d'eau écrasables d'usage général renforcés textiles — Spécifications

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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Foreword

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

This third edition cancels and replaces the second edition (ISO 8029:2007), which has been technically revised. Fifteen sizes of inside diameter were added in order to conform to the couplings and end fittings available in the market (see Table 1).

Introduction

This International Standard has been prepared to provide minimum requirements for the satisfactory performance of textile-reinforced thermoplastic collapsible water hose, for discharge applications, conveying water, aqueous sludge or slurries.

In view of such applications, requirements and the corresponding tests have been specified for exposure to laboratory light sources (see 8.2.5) and for abrasion resistance (see 8.2.6).

Plastics hose — General-purpose collapsible water hose, textile-reinforced — Specification

1 Scope

This International Standard specifies the requirements for four types of textile-reinforced thermoplastics collapsible water hoses for general applications for use in the temperature range of −10 °C to 55 °C. Such hoses are classified into four types, as follows:

— low pressure, designed for a maximum working pressure of up to 0,4 MPa (4,0 bar) at 23 °C and up to 0,2 MPa (2,0 bar) at 55 °C;

— medium pressure, for a maximum working pressure of up to 0,7 MPa (7,0 bar) at 23 °C and up to 0,36 MPa (3,6 bar) at 55 °C;

— high pressure, for a maximum working pressure of up to 1,0 MPa (10,0 bar) at 23 °C and up to 0,51 MPa (5,1 bar) at 55 °C;

— extra-high pressure, for a maximum working pressure of up to 1,55 MPa (15,5 bar) at 23 °C and up to 0,79 MPa (7,9 bar) at 55 °C.

This International Standard does not apply to products used for fire-fighting or the conveyance of drinking water.

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 3, *Preferred numbers — Series of preferred numbers*

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

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

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

ISO 9352, *Plastics — Determination of resistance to wear by abrasive wheels*

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

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

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

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