

# INTERNATIONAL STANDARD

**ISO**  
**4074-7**

Second edition  
1996-08-15

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## Rubber condoms —

### Part 7:

Oven conditioning

**iTeh STANDARD PREVIEW**

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*Préservatifs masculins en caoutchouc —*

*Partie 7: Conditionnement à l'étuve*

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Reference number  
ISO 4074-7:1996(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.

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.

International Standard ISO 4074-7 was prepared by Technical Committee ISO/TC 157, *Mechanical contraceptives*.

ISO 4074 consists of the following parts, under the general title *Rubber condoms*:

- Part 1: Requirements
- Part 2: Determination of length
- Part 3: Determination of width
- Part 5: Testing for holes — Water leak test
- Part 6: Determination of bursting volume and pressure
- Part 7: Oven conditioning
- Part 9: Determination of tensile properties
- Part 10: Packaging and labelling — Condoms in consumer packages

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International Organization for Standardization  
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

# Rubber condoms —

## Part 7: Oven conditioning

### 1 Scope

This part of ISO 4074 specifies a method for the determination of the resistance of packaged condoms to deterioration during storage. ISO 4074-6 and ISO 4074-9 are used in conjunction with this method.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 4074. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 4074 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 188:1982, *Rubber, vulcanized — Accelerated ageing or heat-resistance tests*.

ISO 4074-6:1996, *Rubber condoms — Part 6: Determination of bursting volume and pressure*.

ISO 4074-9:1996, *Rubber condoms — Part 9: Determination of tensile properties*.

### 3 Principle

Determination of bursting volume and pressure, and/or tensile properties of rubber condoms after conditioning the packages at an elevated temperature for a specified time.

### 4 Apparatus

**4.1 Oven**, of either type specified in ISO 188. However air changes and suspension of the individual packages as indicated in ISO 188 are not required.

### 5 Preparation of test samples

**5.1** Condoms in bulk shall be packed individually before being tested in accordance with this part of ISO 4074.

**5.2** Rubber condoms shall be conditioned in their original individual packages (i.e. remove the individual container from consumer and/or outer packages before conditioning).

### 6 Procedure

**6.1** Condition the requisite number of unopened packages of rubber condoms in an oven (4.1) at 70 °C  $\pm$  2 °C for 168 h  $\pm$  2 h.

**6.2** After heating, keep the packages at 23 °C  $\pm$  5 °C for at least 12 h but not more than 96 h.

**6.3** Open the packages and examine conditioned condoms for tackiness, brittleness or other signs of deterioration.

**6.4** Within 96 h but not sooner than 12 h after conditioning at 70 °C, perform the tests required.

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### ICS 11.200

**Descriptors:** birth control, contraceptives, contraceptive devices, rubber products, condoms, storage, tests, ageing tests (materials), determination, storage defects.

Price based on 1 page

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