

International Standard



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Rubber condoms — Part 6 : Determination of bursting volume and pressure

Préservatifs masculins en caoutchouc — Partie 6 : Détermination du volume et de la pression d'éclatement

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4074/6 was developed by Technical Committee ISO/TC 157, *Mechanical contraceptives*, and was circulated to the member bodies in March 1983.

It has been approved by the member bodies of the following countries :

Australia	Germany, F.R.	Poland
China	India	South Africa, Rep. of
Czechoslovakia	Italy	Sweden
Denmark	Korea, Rep. of	Thailand
Egypt, Arab Rep. of	Mexico	United Kingdom
France	Netherlands	USSR

The member body of the following country expressed disapproval of the document on technical grounds :

USA

This second edition cancels and replaces the first edition (i.e. ISO 4074/6-1981).

Rubber condoms —

Part 6 : Determination of bursting volume and pressure

1 Scope and field of application

This part of ISO 4074 specifies a method of determining the bursting volume and pressure of rubber condoms.

2 Principle

Inflation of a constant length of the condom with air and recording the volume and pressure at the moment of bursting.

3 Apparatus

3.1 Apparatus suitable for inflating the condom with clean air at a specified rate and provided with equipment for measuring volume and pressure.

3.2 Suitable mount for fitting the condoms to the apparatus, as shown in the figure.

3.3 Rod, 140 mm in length having a smooth sphere 20 mm in diameter at its top (see the figure) for hanging the unrolled condom when fixed to the apparatus.

4 Procedure

4.1 Unroll the condom, hang it on the rod (3.3), affix to the mount (3.2) and inflate with air at a rate of 0,4 to 0,5 dm³/s (24 to 30 dm³/min).

4.2 Measure and note the bursting volume, in cubic decimetres rounded to the nearest 0,5 dm³, and the bursting pressure, in kilopascals rounded to the nearest 0,1 kPa.

5 Test report

The test report shall include the following particulars :

- a) the identification of the sample;
- b) the bursting volume and bursting pressure of each tested condom;
- c) the date of testing.