
International Standard



8009/3

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Reusable rubber contraceptive diaphragms — Part 3 : Determination of dome thickness

Diaphragmes contraceptifs réutilisables en caoutchouc — Partie 3 : Détermination de l'épaisseur du dôme

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Foreword

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International Standard ISO 8009/3 was prepared by Technical Committee ISO/TC 157, *Mechanical contraceptives*.

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Reusable rubber contraceptive diaphragms — Part 3 : Determination of dome thickness

1 Scope and field of application

This part of ISO 8009 specifies a method for determining the dome thickness of reusable rubber contraceptive diaphragms.

2 Reference

ISO/R 463, *Dial gauges reading in 0,01 mm, 0.001 in and 0.000 1 in.*

3 Principle

Measurement of the dome thickness by means of a specified dial gauge.

4 Apparatus

A **dial gauge** firmly held in a rigid stand over a flat base plate. The gauge shall be graduated in divisions of not more than 0,01 mm and shall comply with the recommendations of ISO/R 463.

The dial gauge shall be fitted with a flat contact of diameter between 3 and 7 mm, perpendicular to the plunger and parallel

to the base plate, and shall operate with a pressure of 22 ± 5 kPa.

5 Procedure

5.1 Place the diaphragm dome on the flat base plate of the dial gauge (see clause 4).

5.2 Measure, to the nearest 0,01 mm, the dome thickness, at the centre and at no fewer than four points midway between the centre and the rim, which are circumferentially equidistant.

6 Test report

The test report shall include the following particulars :

- a) identification of the sample;
- b) number of samples tested;
- c) thickness of the dome, expressed in millimetres, indicating the minimum value for each tested diaphragm;
- d) date of testing.