DIN ISO 1817:2026-02 (E)

Rubber, vulcanized or thermoplastic - Determination of the effect of liquids (ISO 1817:2024)

Contents

Page

Foreword ... **iv**

Introduction ... **v**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **1**

4 Apparatus ... **1**
4.1 General ... 1
4.2 Apparatus for method A ... 2
4.3 Apparatus for method B ... 3
4.4 Apparatus for method C ... 3
4.4.1 General ... 3
4.4.2 With air contact ... 4
4.4.3 Without air contact ... 4
4.5 Apparatus for method D ... 5
4.6 Apparatus for method E ... 6
4.7 Additional equipment ... 7

5 Calibration ... **7**

6 Test liquids ... **8**

7 Test pieces ... **9**
7.1 Preparation ... 9
7.2 Dimensions ... 9
7.3 Time interval between vulcanization and testing ... 9
7.4 Conditioning ... 9

8 Immersion in the test liquid ... **10**
8.1 Temperature ... 10
8.2 Duration ... 10

9 Procedure ... **10**
9.1 General ... 10
9.2 Replacement of test liquid ... 11
9.3 Change in mass ... 11
9.4 Change in volume ... 12
9.5 Change in dimensions ... 12
9.6 Change in surface area ... 13
9.7 Change in hardness ... 14
9.8 Change in tensile stress-strain properties ... 15
9.9 Testing with liquid on one surface only ... 15
9.10 Determination of extractable matter ... 16
9.10.1 General ... 16
9.10.2 By weighing the dried test piece ... 16
9.10.3 By evaporating the test liquid ... 16

10 Precision ... **16**

11 Test report ... **16**

Annex A (normative) **Reference liquids** ... **18**

Annex B (normative) **Calibration schedule** ... **23**

Annex C (informative) **Precision** ... **25**

Bibliography ... **31**