DIN ISO 4802-2:2017-02 (E)

Glassware - Hydrolytic resistance of the interior surfaces of glass containers - Part 2: Determination b y flame spectrometry and classification (ISO 4802-2:2016)

Contents

Page

National foreword ... **3**

Nationaler Annex NA (informative) **Bibliography** ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Principle ... **9**

5 Reagents ... **9**

6 Apparatus ... **11**

7 Sample preparation ... **11**
- 7.1 Sample size ... 11
- 7.2 Determination of the filling volume ... 12
  - 7.2.1 Flat-bottomed containers ≤20 mm outer flange diameter (except ampoules, syringes and cartridges) ... 12
  - 7.2.2 Flat-bottomed containers >20 mm outer flange diameter ... 12
  - 7.2.3 Round-bottomed containers ... 12
  - 7.2.4 Lipped containers ... 13
  - 7.2.5 Ampoules ... 13
  - 7.2.6 Syringes and cartridges ... 13

8 Procedure ... **13**
- 8.1 General ... 13
- 8.2 Cleaning of samples ... 14
- 8.3 Filling and heating ... 14
- 8.4 Analysis of the extraction solutions ... 15
  - 8.4.1 Containers of hydrolytic resistance container classes HC_F 1, HC_F 2 and HC_F B or those known to be made from borosilicate glass ... 15
  - 8.4.2 Containers of hydrolytic resistance container classes HC_F 3 and HC_F D, or those known to be made from soda-lime-silica glass ... 15
- 8.5 Testing to determine whether the containers have been surface-treated ... 16

9 Expression of results ... **16**
- 9.1 Determination ... 16
- 9.2 Classification ... 17
- 9.3 Distinction between containers of hydrolytic resistance container class HC_F 1 and hydrolytic resistance container class HC_F 2 ... 17
- 9.4 Designation ... 17

10 Test report ... **17**

11 Reproducibility ... **18**

Bibliography ... **19**