

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

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

Contents	Page
<b>National foreword</b>	3
<b>Nationaler Annex NA (informative) Bibliography</b>	4
<b>Introduction</b>	5
<b>1 Scope</b>	6
<b>2 Normative references</b>	6
<b>3 Terms and definitions</b>	6
<b>4 Principle</b>	9
<b>5 Reagents</b>	9
<b>6 Apparatus</b>	11
<b>7 Sample preparation</b>	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
<b>8 Procedure</b>	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 <sub>F</sub> 1, HC <sub>F</sub> 2 and HC <sub>F</sub> B or those known to be made from borosilicate glass	15
8.4.2 Containers of hydrolytic resistance container classes HC <sub>F</sub> 3 and HC <sub>F</sub> 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
<b>9 Expression of results</b>	16
9.1 Determination	16
9.2 Classification	17
9.3 Distinction between containers of hydrolytic resistance container class HC <sub>F</sub> 1 and hydrolytic resistance container class HC <sub>F</sub> 2	17
9.4 Designation	17
<b>10 Test report</b>	17
<b>11 Reproducibility</b>	18
<b>Bibliography</b>	19