

# DIN EN 16738:2016-04 (E)

## Emission safety of combustible air fresheners - Test methods

---

| <b>Contents</b>  |   | <b>Page</b> |
|--|---|-------------|
| European foreword .....                                  |   | 3           |
| <b>1</b>   | <b>Scope .....</b>  | <b>4</b>    |
| <b>2</b>   | <b>Normative references .....</b>                                   | <b>4</b>    |
| <b>3</b>   | <b>Terms and definitions .....</b>                                  | <b>5</b>    |
| <b>4</b>   | <b>Test methods .....</b>   | <b>6</b>    |
| 4.1  | Principles .....  | 6           |
| 4.2  | Apparatus .....   | 7           |
| 4.3  | General test conditions .....                                       | 7           |
| 4.3.1  | General .....   | 7           |
| 4.3.2  | Test chamber volume .....   | 7           |
| 4.3.3  | Number of test specimens at the same time in the test chamber ..... | 7           |
| 4.3.4  | Positioning of test specimens in the test chamber .....             | 8           |
| 4.3.5  | Air supply quality and background concentration .....               | 9           |
| 4.3.6  | Test specimen preparation and ignition .....                        | 9           |
| 4.3.7  | Temperature inside the test chamber during the test .....           | 10          |
| 4.3.8  | Relative air humidity inside the test chamber during the test ..... | 10          |
| 4.3.9  | Oxygen concentration inside the test chamber during the test .....  | 10          |
| 4.3.10   | Control of the burning process .....                                | 10          |
| 4.3.11   | Burn rates .....  | 11          |
| 4.3.12   | Sampling and analysis of VOC (benzene, naphthalene) .....           | 11          |
| 4.3.13   | Sampling and analysis of formaldehyde .....                         | 11          |
| 4.3.14   | Sampling and analysis of NO <sub>2</sub> (nitrogen dioxide) .....   | 12          |
| 4.3.15   | Sampling and analysis of SO <sub>2</sub> (sulfur dioxide) .....     | 12          |
| 4.3.16   | Sampling analysis of CO .....                                       | 12          |
| 4.4  | Procedures of testing .....   | 12          |
| 4.5  | Calculation of results .....  | 12          |
| <b>5</b>   | <b>Test report .....</b>  | <b>13</b>   |
| Annex A (informative) Description of sorbent types ..... |   | 14          |
| Bibliography .....                                       |   | 15          |