

# DIN EN ISO 12460-4:2016-09 (E)

## Wood-based panels - Determination of formaldehyde release - Part 4: Desiccator method (ISO 12460-4:2016)

---

| <b>Contents</b>           |  | <b>Page</b> |
|---------------------------|--|-------------|
| European foreword .....   |  | 3           |
| Foreword .....            |  | 4           |
| <b>1</b>                  | <b>Scope</b> .....   | <b>5</b>    |
| <b>2</b>                  | <b>Normative references</b> .....  | <b>5</b>    |
| <b>3</b>                  | <b>Principle</b> .....   | <b>5</b>    |
| <b>4</b>                  | <b>Reagents</b> .....  | <b>5</b>    |
| <b>5</b>                  | <b>Apparatus</b> .....   | <b>6</b>    |
| <b>6</b>                  | <b>Test pieces</b> .....   | <b>6</b>    |
|                           | 6.1 Sampling .....   | 6           |
|                           | 6.2 Dimensions .....   | 8           |
|                           | 6.3 Number of test pieces .....  | 8           |
|                           | 6.4 Number of emission tests .....   | 8           |
|                           | 6.5 Conditioning .....   | 8           |
| <b>7</b>                  | <b>Procedure</b> .....   | <b>8</b>    |
|                           | 7.1 Desiccator preparation .....   | 8           |
|                           | 7.1.1 New desiccators .....  | 8           |
|                           | 7.1.2 Before each determination .....  | 8           |
|                           | 7.2 Test conditions .....  | 9           |
|                           | 7.3 Positioning of the test pieces .....   | 9           |
|                           | 7.4 Monitoring of test conditions .....  | 9           |
|                           | 7.4.1 Temperature .....  | 9           |
|                           | 7.4.2 Background formaldehyde .....  | 9           |
|                           | 7.5 Test duration .....  | 9           |
|                           | 7.6 Sample collection .....  | 9           |
| <b>8</b>                  | <b>Determination of formaldehyde</b> .....   | <b>9</b>    |
|                           | 8.1 General .....  | 9           |
|                           | 8.2 Principle .....  | 9           |
|                           | 8.3 Procedure .....  | 10          |
|                           | 8.4 Calibration curve .....  | 10          |
|                           | 8.4.1 General .....  | 10          |
|                           | 8.4.2 Formaldehyde standard solution .....   | 10          |
|                           | 8.4.3 Formaldehyde calibration solution .....  | 10          |
|                           | 8.4.4 Determination of the calibration curve .....   | 11          |
|                           | 8.5 Calculation of the concentration of formaldehyde in the glass crystallizing dish in the desiccator ..... | 11          |
| <b>9</b>                  | <b>Expression of results</b> .....   | <b>11</b>   |
| <b>10</b>                 | <b>Test report</b> .....   | <b>11</b>   |
| <b>Bibliography</b> ..... |  | <b>13</b>   |