

# DIN ISO 10315:2022-04 (E)

## Cigarettes - Determination of nicotine in total particulate matter from the mainstream smoke - Gas-chromatographic method (ISO 10315:2021)

---

<b>Contents</b>	<b>Page</b>
National foreword .....	3
National Annex NA (informative) <b>Bibliography</b> .....	4
Foreword .....	5
Introduction .....	6
<b>1 Scope</b> .....	<b>7</b>
<b>2 Normative references</b> .....	<b>7</b>
<b>3 Terms and definitions</b> .....	<b>7</b>
<b>4 Principle</b> .....	<b>7</b>
<b>5 Reagents</b> .....	<b>7</b>
<b>6 Apparatus</b> .....	<b>8</b>
<b>7 Procedure</b> .....	<b>9</b>
7.1 Test portion .....	9
7.2 Setting up the apparatus .....	9
7.3 Calibration of the gas chromatograph .....	9
7.4 Determination .....	9
<b>8 Expression of results</b> .....	<b>10</b>
<b>9 Repeatability and reproducibility</b> .....	<b>10</b>
<b>10 Alternative gas-chromatographic procedures and analysis precautions</b> .....	<b>11</b>
10.1 General .....	11
10.2 Alternative columns .....	11
10.2.1 Packed columns .....	11
10.2.2 Capillary columns .....	11
10.3 Injection systems .....	11
10.4 Alternative internal standards .....	12
<b>11 Test report</b> .....	<b>12</b>
<b>Annex A (informative) Use of this method with the gas-chromatographic determination of water</b> .....	<b>13</b>
<b>Annex B (informative) Example of chromatogram</b> .....	<b>14</b>
<b>Bibliography</b> .....	<b>15</b>