

# DIN EN ISO 16189:2022-03 (E)

Footwear - Critical substances potentially present in footwear and footwear components - Test method to quantitatively determine dimethylformamide in footwear materials (ISO 16189:2021)

---

<b>Contents</b>	<b>Page</b>
European foreword .....	3
Foreword .....	4
<b>1 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>5</b>
<b>3 Terms and definitions</b> .....	<b>5</b>
<b>4 Principle</b> .....	<b>5</b>
<b>5 Reagents</b> .....	<b>5</b>
<b>6 Apparatus</b> .....	<b>6</b>
<b>7 Preparation of sample</b> .....	<b>7</b>
7.1 Sampling .....	7
7.2 Extraction .....	7
<b>8 Determination with GC-MS</b> .....	<b>7</b>
8.1 Calibration standard .....	7
8.2 Examples of instrumental method .....	7
<b>9 Expression of results - Calibration curve</b> .....	<b>8</b>
<b>10 Performance of the method</b> .....	<b>8</b>
<b>11 Test report</b> .....	<b>8</b>
<b>Annex A (informative) Suggested parameters for GC-MS determination of DMF</b> .....	<b>9</b>
<b>Bibliography</b> .....	<b>10</b>