

# DIN EN ISO 10545-3:2018-06 (E)

## Ceramic tiles - Part 3: Determination of water absorption, apparent porosity, apparent relative density and bulk density (ISO 10545-3:2018)

---

<b>Contents</b>		<b>Page</b>
European foreword .....		3
Foreword .....		4
Introduction .....		5
<b>1</b>	<b>Scope</b> .....	<b>6</b>
<b>2</b>	<b>Normative references</b> .....	<b>6</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>6</b>
<b>4</b>	<b>Principle</b> .....	<b>6</b>
<b>5</b>	<b>Apparatus</b> .....	<b>6</b>
<b>6</b>	<b>Test specimens</b> .....	<b>7</b>
6.1	Sampling .....	7
6.2	Sample cutting .....	8
6.2.1	General .....	8
6.2.2	Tiles less than or equal to 400 cm <sup>2</sup> .....	8
6.2.3	Tiles greater than 400 cm <sup>2</sup> and less than or equal to 3 600 cm <sup>2</sup> , where x and y >20 cm .....	9
6.2.4	Tiles greater than 400 cm <sup>2</sup> and less than or equal to 3 600 cm <sup>2</sup> , where only y is ≤20 cm .....	10
6.2.5	Tiles greater than 3 600 cm <sup>2</sup> .....	10
<b>7</b>	<b>Procedure</b> .....	<b>11</b>
7.1	Sample preparation .....	11
7.2	Impregnation with water .....	12
7.3	Suspended weight .....	12
<b>8</b>	<b>Expression of results</b> .....	<b>12</b>
8.1	Water absorption .....	12
8.2	Apparent porosity .....	13
8.3	Apparent relative density .....	13
8.4	Bulk density .....	13
<b>9</b>	<b>Test report</b> .....	<b>13</b>