

# DIN EN 13256:2016-12 (E)

## Geotextiles and geotextile-related products - Characteristics required for use in the construction of tunnels and underground structures

---

<b>Contents</b>		<b>Page</b>
European 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, definitions and abbreviations .....</b>	<b>7</b>
<b>3.1</b>	<b>Terms and definitions .....</b>	<b>7</b>
<b>3.2</b>	<b>Abbreviations .....</b>	<b>8</b>
<b>4</b>	<b>Required characteristics and corresponding methods of test .....</b>	<b>8</b>
<b>4.1</b>	<b>General .....</b>	<b>8</b>
<b>4.2</b>	<b>Selection of the appropriate standard in a specific application .....</b>	<b>8</b>
<b>4.3</b>	<b>Characteristics relevant to specific conditions of use .....</b>	<b>10</b>
<b>4.3.1</b>	<b>Tensile strength of seams and joints .....</b>	<b>10</b>
<b>4.3.2</b>	<b>Friction characteristics .....</b>	<b>10</b>
<b>4.3.3</b>	<b>Resistance to damage during installation .....</b>	<b>10</b>
<b>4.4</b>	<b>Release of dangerous substances .....</b>	<b>10</b>
<b>5</b>	<b>Assessment and verification of constancy of performance (AVCP) .....</b>	<b>10</b>
<b>5.1</b>	<b>General .....</b>	<b>10</b>
<b>5.2</b>	<b>Presentation of characteristics .....</b>	<b>10</b>
<b>5.3</b>	<b>Product type determination (PTD) .....</b>	<b>11</b>
<b>5.4</b>	<b>Factory production control (FPC) .....</b>	<b>11</b>
<b>5.5</b>	<b>Verification of values .....</b>	<b>12</b>
<b>5.6</b>	<b>Initial inspection of factory and of FPC .....</b>	<b>12</b>
<b>5.7</b>	<b>Continuous surveillance of FPC .....</b>	<b>13</b>
<b>6</b>	<b>Marking .....</b>	<b>13</b>
<b>Annex A (normative) Factory production control .....</b>		<b>14</b>
<b>A.1</b>	<b>Factory production control scheme .....</b>	<b>14</b>
<b>A.1.1</b>	<b>General .....</b>	<b>14</b>
<b>A.1.2</b>	<b>Product design .....</b>	<b>14</b>
<b>A.1.3</b>	<b>Production .....</b>	<b>14</b>
<b>A.1.4</b>	<b>Finished products .....</b>	<b>14</b>
<b>A.1.5</b>	<b>Provisions applicable to A.1.2, A.1.3 and A.1.4 (to be used where appropriate) .....</b>	<b>15</b>
<b>A.2</b>	<b>Assessment of a factory production control (FPC) system .....</b>	<b>16</b>
<b>A.2.1</b>	<b>General .....</b>	<b>16</b>
<b>A.2.2</b>	<b>Checklist .....</b>	<b>16</b>
<b>A.2.3</b>	<b>Test frequency .....</b>	<b>20</b>
<b>Annex B (normative) Durability aspects .....</b>		<b>22</b>
<b>B.1</b>	<b>General .....</b>	<b>22</b>
<b>B.1.1</b>	<b>Service life .....</b>	<b>22</b>
<b>B.1.2</b>	<b>Initial and repeat testing of durability .....</b>	<b>22</b>

<b>B.1.3</b>	<b>Use of rework material .....</b>	<b>23</b>
<b>B.2</b>	<b>Weathering (all products) .....</b>	<b>23</b>
<b>B.3</b>	<b>Products used in non-reinforcing applications and with service lives up to 5 years .....</b>	<b>23</b>
<b>B.4</b>	<b>Other applications and service lives up to 25 years, 50 years and 100 years .....</b>	<b>24</b>
<b>B.4.1</b>	<b>General .....</b>	<b>24</b>
<b>B.4.2</b>	<b>Tests for specific materials .....</b>	<b>24</b>
<b>Annex C (informative) Guidelines for the selection of the appropriate standard in a specific application .....</b>		<b>28</b>
<b>Annex D (informative) Significant technical changes to superseded editions of this standard .....</b>		<b>30</b>
<b>Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation .....</b>		<b>31</b>
<b>ZA.1</b>	<b>Scope and relevant characteristics .....</b>	<b>31</b>
<b>ZA.2</b>	<b>Procedure for AVCP of Geotextiles and geotextiles-related products for the use in the construction of tunnels and underground structures .....</b>	<b>32</b>
<b>ZA.2.1</b>	<b>Systems of AVCP .....</b>	<b>32</b>
<b>ZA.2.2</b>	<b>Declaration of performance (DoP) .....</b>	<b>34</b>
<b>ZA.3</b>	<b>CE marking and labelling .....</b>	<b>40</b>
<b>Bibliography .....</b>		<b>41</b>