

# DIN EN 13765:2015-05 (E)

Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals - Specification (includes Amendment A1:2015)

---

<b>Contents</b>		<b>Page</b>
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>Terms and definitions .....</b>	<b>6</b>
<b>4</b>	<b>Classification .....</b>	<b>6</b>
<b>5</b>	<b>Materials and construction .....</b>	<b>6</b>
<b>5.1</b>	<b>General .....</b>	<b>6</b>
<b>5.2</b>	<b>Internal and external wire .....</b>	<b>7</b>
<b>6</b>	<b>Dimensions .....</b>	<b>7</b>
<b>6.1</b>	<b>Internal diameters, with tolerances and minimum bend radii .....</b>	<b>7</b>
<b>6.2</b>	<b>Tolerance on length .....</b>	<b>8</b>
<b>7</b>	<b>Performance requirements of hoses and hose assemblies .....</b>	<b>8</b>
<b>7.1</b>	<b>Cover .....</b>	<b>8</b>
<b>7.2</b>	<b>Hoses .....</b>	<b>8</b>
<b>7.3</b>	<b>End fittings .....</b>	<b>9</b>
<b>7.4</b>	<b>Hose assemblies .....</b>	<b>9</b>
<b>7.5</b>	<b>Electrical continuity .....</b>	<b>10</b>
<b>8</b>	<b>Test frequency .....</b>	<b>10</b>
<b>9</b>	<b>Type tests .....</b>	<b>10</b>
<b>10</b>	<b>Marking .....</b>	<b>11</b>
<b>10.1</b>	<b>Hose marking .....</b>	<b>11</b>
<b>10.2</b>	<b>Hose assembly marking .....</b>	<b>11</b>
<b>Annex A (informative) Resistance to chemical(s) conveyed .....</b>		<b>12</b>
<b>Annex B (normative) Carbon steel wire .....</b>		<b>13</b>
<b>B.1</b>	<b>Manufacture .....</b>	<b>13</b>
<b>B.2</b>	<b>Condition of finished wire .....</b>	<b>13</b>
<b>B.3</b>	<b>Properties .....</b>	<b>14</b>
<b>Annex C (normative) Galvanized zinc coating .....</b>		<b>15</b>
<b>C.1</b>	<b>Adhesion of coating .....</b>	<b>15</b>
<b>C.2</b>	<b>Minimum mass of coating .....</b>	<b>15</b>
<b>Annex D (normative) Method of test for crush recovery .....</b>		<b>16</b>
<b>Annex E (normative) Method of test for fuel resistance .....</b>		<b>18</b>

<b>Annex F (normative) Method of test for thermal ageing .....</b>	<b>19</b>
<b>Annex G (normative) Method of test for flammability .....</b>	<b>20</b>
<b>Annex H (normative) Sequence of hydrostatic tests .....</b>	<b>22</b>
<b>Annex I (normative) Method of test for fitting security .....</b>	<b>23</b>
<b>Annex J (normative) Method of test for leak tightness .....</b>	<b>24</b>
<b>Annex K (normative) Type and routine tests for hoses and hose assemblies .....</b>	<b>25</b>
<b>Annex L (informative) Batch tests for hoses and hose assemblies .....</b>	<b>26</b>