

# DIN EN 14225-1:2018-03 (E)

## Diving suits - Part 1: Wet suits - Requirements and test methods

---

<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 and definitions .....</b>	<b>6</b>
<b>4</b>	<b>Requirements .....</b>	<b>7</b>
<b>4.1</b>	<b>Mechanical performance .....</b>	<b>7</b>
<b>4.1.1</b>	<b>Resistance to cold and hot storage .....</b>	<b>7</b>
<b>4.1.2</b>	<b>Sea water resistance .....</b>	<b>7</b>
<b>4.1.3</b>	<b>Resistance to cleaning, disinfection and decontamination .....</b>	<b>7</b>
<b>4.1.4</b>	<b>Resistance to repeated pressurization in water .....</b>	<b>8</b>
<b>4.1.5</b>	<b>Tensile strength of material .....</b>	<b>8</b>
<b>4.1.6</b>	<b>Resistance to permanent deformation .....</b>	<b>8</b>
<b>4.1.7</b>	<b>Strength of suit seams .....</b>	<b>8</b>
<b>4.1.8</b>	<b>Strength of closures .....</b>	<b>8</b>
<b>4.2</b>	<b>Limitation of water flow into and out of the suit .....</b>	<b>8</b>
<b>4.2.1</b>	<b>Seams .....</b>	<b>8</b>
<b>4.2.2</b>	<b>Closures .....</b>	<b>8</b>
<b>4.3</b>	<b>Thermal performance of suit materials .....</b>	<b>8</b>
<b>4.4</b>	<b>Sizing .....</b>	<b>9</b>
<b>4.5</b>	<b>Practical performance requirements .....</b>	<b>9</b>
<b>5</b>	<b>Test methods .....</b>	<b>9</b>
<b>5.1</b>	<b>General .....</b>	<b>9</b>
<b>5.2</b>	<b>Test sequence .....</b>	<b>9</b>
<b>5.3</b>	<b>Visual Inspection .....</b>	<b>11</b>
<b>5.4</b>	<b>Mechanical test methods .....</b>	<b>12</b>
<b>5.4.1</b>	<b>Preliminary tests .....</b>	<b>12</b>
<b>5.4.2</b>	<b>Resistance to repeated pressurization in water .....</b>	<b>12</b>
<b>5.4.3</b>	<b>Immersed thermal resistance of thermal insulating material .....</b>	<b>13</b>
<b>5.4.4</b>	<b>Tensile strength of thermal insulating material .....</b>	<b>13</b>
<b>5.4.5</b>	<b>Tensile strength of seams .....</b>	<b>13</b>
<b>5.4.6</b>	<b>Tensile strength of closures .....</b>	<b>13</b>
<b>5.4.7</b>	<b>Resistance to permanent deformation of thermal insulating material .....</b>	<b>14</b>
<b>5.5</b>	<b>Practical performance test .....</b>	<b>14</b>
<b>5.5.1</b>	<b>Sampling .....</b>	<b>14</b>
<b>5.5.2</b>	<b>Test panel .....</b>	<b>14</b>
<b>5.5.3</b>	<b>Test divers .....</b>	<b>14</b>
<b>5.5.4</b>	<b>Diving equipment .....</b>	<b>15</b>
<b>5.5.5</b>	<b>Test procedure .....</b>	<b>15</b>
<b>6</b>	<b>Marking .....</b>	<b>16</b>
<b>7</b>	<b>Information to be supplied by the manufacturer .....</b>	<b>17</b>
<b>7.1</b>	<b>Information to be supplied with the suit .....</b>	<b>17</b>
<b>7.2</b>	<b>Customer information to be supplied at the point of sale .....</b>	<b>18</b>
<b>7.3</b>	<b>Instructions for use .....</b>	<b>18</b>

<b>Annex A (normative) Method for determination immersed thermal resistance of diving suit material</b>	<b>20</b>
A.1 Principle	20
A.2 Theory	20
A.3 Use of the measurements	21
A.4 Test procedure	22
<b>Annex B (normative) Ratings of practical performance, scale and questionnaire</b>	<b>26</b>
<b>Annex C (informative) Guidance on selection and use of a wet suit, to be provided by the manufacturer</b>	<b>27</b>
C.1 Wet suit function	27
C.2 Wet suit type	27
C.3 Wet suit fit	27
C.4 Warning	28
C.5 Wet suit thermal insulating material	28
<b>Annex D (informative) Significant technical changes between this European Standard and Annex ZA (informative) Relationship between this European Standard and the Essential requirements of Directive 89/686/EEC aimed to be covered</b>	<b>30</b>
<b>Annex ZB (informative) Relationship between this European Standard and the Essential Requirements of Regulation (EU) 2016/425 aimed to be covered</b>	<b>32</b>
<b>Bibliography</b>	<b>34</b>