

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

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

---

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

<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>