DIN EN 14225-2:2018-03 (E)

Diving suits - Part 2: Dry suits - Requirements and test methods

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 7

4 Requirements 9
4.1 General 9
4.2 Mechanical performance 10
4.2.1 Resistance to cold and hot storage 10
4.2.2 Sea water resistance 11
4.2.3 Resistance to cleaning, disinfection and decontamination 11
4.3 Mechanical performance of the material, seams and attachments 11
4.3.1 Resistance of material to puncture and dynamic tearing 11
4.3.2 Strength of suit seams 11
4.3.3 Strength of closures 11
4.3.4 Joint strength of attachments 11
4.3.5 Integrity of slide fasteners 11
4.4 Construction 12
4.4.1 Sizing 12
4.4.2 Internal volume control system 12
4.4.3 Connectors 14
4.4.4 Penetrators 14
4.4.5 Provision for urination 14
4.4.6 Leakage resistance 14
4.5 Practical performance requirements 14
4.6 Optional features 15
4.6.1 Hoods 15
4.6.2 Special protection 15

5 Test methods 16
5.1 General 16
5.2 Test sequence 16
5.3 Visual Inspection 18
5.4 Mechanical test methods 18
5.4.1 General 18
5.4.2 Preliminary tests 19
5.4.3 Mechanical tests 19
5.5 Testing of suit components 20
5.5.1 Internal volume control system 20
5.5.2 Leakages test 23
5.5.3 Inflation connections 23
5.6 Practical performance test 24
5.6.1 General 24
5.6.2 Sampling 24
5.6.3 Test panel 24

5.6.4 Test divers **24**
5.6.5 Test clothing **24**
5.6.6 Diving equipment **25**
5.6.7 Test procedure **25**
5.6.8 Depth dive **27**
5.6.9 Pass / fail criteria **27**
5.7 Testing optional features **27**
5.7.1 Thermal insulation **27**
5.7.2 Chemical resistance **28**
5.7.3 Resistance against biological hazards **28**
5.7.4 Abrasion test **28**
5.7.5 Visibility **28**

6 Marking **29**

7 Information to be supplied by the manufacturer **30**
7.1 Information to be supplied with the suit **30**
7.2 Customer information to be supplied at the point of sale **30**
7.3 Instructions for use **30**

Annex A (normative) **Ratings of practical performance, thermal comfort and perceived exertion** **32**

A.1 Practical Performance: Scale **32**

A.2 Thermal Comfort: Scale and Questionnaire **32**

A.3 Perceived Exertion: Scale and Questionnaire **33**

Annex B (normative) **Abrasion — Requirements for glass paper and glass cloth** **34**

B.1 Quality of materials **34**

B.1.1 Abrasive **34**

B.1.2 Backing **34**

B.1.3 Adhesive **34**

B.2 Form and dimensions **34**

B.3 Abrasive grain **34**

B.4 Breaking strength **34**

Annex C (informative) **Significant technical changes between this European Standard and EN 14225-2:2005** **36**

Annex ZA (informative) **Relationship between this European Standard and the Essential requirements of Directive 89/686/EEC aimed to be covered** **38**

Annex ZB (informative) **Relationship between this European Standard and the Essential Requirements of Regulation (EU) 2016/425 aimed to be covered** **40**

Bibliography **42**