



## BSI Standards Publication

### Diving suits

---

Part 3: Actively heated or cooled suit systems and components - Requirements and test methods

## National foreword

This British Standard is the UK implementation of EN 14225-3:2017. It supersedes BS EN 14225-3:2005, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PH/3/6, Buoyancy garments.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2018  
Published by BSI Standards Limited 2018

ISBN 978 0 580 85038 7

ICS 97.220.40

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 28 February 2018.

### Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

English Version

**Diving suits - Part 3: Actively heated or cooled  
suit systems and components - Requirements and  
test methods**

Vêtements de plongée - Vêtements avec système de  
chauffage ou de refroidissement actif et composants  
- Partie 3 : Exigences et méthodes d'essai

Tauchanzüge - Teil 3: Aktiv beheizte oder  
gekühlte Anzugssysteme und Anzugsteile  
- Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 7 June 2017.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

# Contents

Page

<b>European foreword</b>	<b>4</b>
<b>Introduction</b>	<b>5</b>
<b>1 Scope</b>	<b>6</b>
<b>2 Normative references</b>	<b>6</b>
<b>3 Terms and definitions</b>	<b>6</b>
<b>4 Requirements</b>	<b>8</b>
4.1 General	8
4.2 Categories	9
4.3 Mechanical performance	9
4.3.1 Resistance to cold and hot storage	9
4.3.2 Sea water resistance	9
4.3.3 Resistance to cleaning, disinfection and decontamination	9
4.4 Mechanical performance of the material, seams and attachments	9
4.4.1 Resistance of material to puncture and dynamic tearing	9
4.4.2 Strength of suit seams	10
4.4.3 Strength of closures	10
4.4.4 Joint strength of attachments	10
4.4.5 Integrity of slide fasteners	10
4.5 Underwear	10
4.6 Construction	10
4.6.1 Sizing	10
4.6.2 Control systems for heating or cooling	10
4.6.3 Internal volume control system	10
4.6.4 Connectors	10
4.6.5 Suit penetration	11
4.6.6 Provision for urination	11
4.6.7 Leakage resistance of dry suits	11
4.7 Thermal requirements	11
4.8 Special safety requirements for electrical systems	12
4.9 Practical performance requirements	12
4.10 Optional features	12
4.10.1 Resistance against chemicals	12
4.10.2 Resistance against biological hazards	12
4.10.3 Resistance against abrasion	13
4.10.4 Visibility	13
<b>5 Test methods</b>	<b>13</b>
5.1 General	13
5.2 Test sequence	13
5.3 Visual inspection	15
5.4 Mechanical tests methods	15
5.4.1 General	15
5.4.2 Preliminary tests	15
5.4.3 Mechanical tests — Leakage test for dry suits	16
5.4.4 Testing of suit components	16
5.5 Practical performance test	16
5.5.1 General	16
5.5.2 Sampling	16
5.5.3 Test panel	16
5.5.4 Test divers	16
5.5.5 Test clothing	17
5.5.6 Diving equipment	17
5.5.7 Test procedure	17