



Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 14225-1:2017

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

Vêtements de plongée - Partie 1 :
Vêtements isothermes - Exigences et
méthodes d'essai

Tauchanzüge - Teil 1: Nasstauchanzüge -
Anforderungen und Prüfverfahren

12/2017



National Foreword

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

Vêtements de plongée - Vêtements isothermes - Partie
1 : Exigences et méthodes d'essai

Tauchanzüge - Teil 1: Nasstauchanzüge - Teil 1:
Anforderungen und Prüfverfahren

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

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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.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 14225-1:2017) has been prepared by Technical Committee CEN/TC 162 “Protective clothing including hand and arm protection and lifejackets”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2018, and conflicting national standards shall be withdrawn at the latest by June 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 14225-1:2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of Regulation (EU) 2016/425.

For relationship with Regulation (EU) 2016/425, see informative Annexes ZA and ZB, which are an integral part of this document.

Annex D provides details of significant technical changes between this European Standard and the previous edition.

EN 14225 consists of the following parts, under the general title *Diving suits*:

- *Part 1: Wet suits — Requirements and test methods;*
- *Part 2: Dry suits — Requirements and test methods;*
- *Part 3: Actively heated or cooled suit systems and components — Requirements and test methods.*

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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 the United Kingdom.

Introduction

This document for wet diving suits has been prepared to meet the needs of persons engaged in underwater activities where the user is breathing underwater, and where water temperature and exposure duration are such that the person's thermal requirement can be met using a wet suit.

A wet suit may be comprised of one or more pieces.

The conformity of a wet suit to this document does not imply that it is suitable for all circumstances nor does the document make detailed provision for all special uses for which wet suits may be utilized.

The thermal protection provided by a wet suit may be affected by a number of factors including the following:

- water temperature;
- diver's morphology (body surface area and shape, amount of body fat, sex);
- diver's physiology;
- diver's rate of work and working conditions;
- thermal properties of the material of the wet suit.

Most of these factors are individual and significantly change from diver to diver and from dive to dive.

1 Scope

This European Standard specifies the construction and performance requirements (including thermal) of wet suits for wear by divers for underwater activities where the user is breathing underwater. Marking, labelling, information meant to be provided at the point of sale, and instructions for use are also specified.

Laboratory and practical performance tests are specified.

Short sleeve jackets, short-leg trousers, under- and overgarments, and separate accessories such as gloves, hoods and boots are not within the scope of this document.

NOTE Suits and shorties for snorkelling including underwater activities are not covered by this standard.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 250, *Respiratory equipment — Open-circuit self-contained compressed air diving apparatus — Requirements, testing and marking*

EN 1809, *Diving equipment — Buoyancy compensators — Functional and safety requirements, test methods*

EN ISO 3758, *Textiles — Care labelling code using symbols (ISO 3758)*

3 Terms and definitions

For the purpose of this document, the following terms and definitions apply.

3.1 closure

device to close openings provided for the donning and use of a diving suit

Note 1 to entry: Closures include slide fasteners (3.7).

3.2 consumer information at the point of sale

information, available at the point of sale, to allow the consumer to select the correct wet suit for the activity they intend to undertake

3.3 diving suit

suit designed for intended underwater activities, in which the user is breathing underwater

3.4 immersed thermal resistance

thermal resistance of a textile material or composite when the material is immersed in water and subjected to the effect of hydrostatic compression