

SLOVENSKI STANDARD SIST EN ISO 15027-1:2013

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Nadomešča:

SIST EN ISO 15027-1:2002

Potopne obleke - 1. del: Stalno nošene obleke, zahteve, vključno z varnostjo (ISO 15027-1:2012)

Immersion suits - Part 1: Constant wear suits, requirements including safety (ISO 15027-1:2012)

Schutzkleidung gegen Unterkühlung im Wasser - Teil 1: Kälteschutzanzüge, Anforderungen einschließlich Sicherheit (ISO 15027-1:2012)

Combinaisons de protection thermique en cas d'immersion - Partie 1: Combinaisons de port permanent, exigences y compris la sécurité (4SO415027-142012)¹⁸-375606f7bac6/sist-en-iso-15027-1-2013

Ta slovenski standard je istoveten z: EN ISO 15027-1:2012

ICS:

13.340.10 Varovalna obleka Protective clothing

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 15027-1

November 2012

ICS 13.340.10

Supersedes EN ISO 15027-1:2002

English Version

Immersion suits - Part 1: Constant wear suits, requirements including safety (ISO 15027-1:2012)

Combinaisons de protection thermique en cas d'immersion - Partie 1: Combinaisons de port permanent, exigences y compris la sécurité (ISO 15027-1:2012)

Schutzkleidung gegen Unterkühlung im Wasser - Teil 1: Kälteschutzanzüge, Anforderungen einschließlich Sicherheit (ISO 15027-1:2012)

This European Standard was approved by CEN on 31 October 2012.

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 podies 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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

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EN ISO 15027-1:2012 (E)

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EN ISO 15027-1:2012 (E)

Foreword

This document (EN ISO 15027-1:2012) has been prepared by Technical Committee CEN/TC 162 "Protective clothing including hand arm protection and lifejackets", the secretariat of which is held by DIN, in collaboration with Technical Committee ISO/TC 188 "Small craft".

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 May 2013, and conflicting national standards shall be withdrawn at the latest by May 2013.

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

This document supersedes EN ISO 15027-1:2002.

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 EU Directive.

For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organisations 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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EN ISO 15027-1:2012 (E)

Annex ZA (informative)

Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to provide a means of conforming to Essential Requirements of the New Approach Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one Member State, compliance with the clauses of this standard, except 4.10 and 4.12, given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

Table ZA.1 — Correspondence between this standard and Directive 89/686/EEC

Clause(s)/sub- clause(s) of this EN	Es	sential Requirements (ERs) of Directive 89/686/EEC	Qualifying remarks/Notes
4.11	1.1.1	Ergonomics ANDARD PREVIEW	
4.2.3.1; 4.2.3.3; 4.11	1.1.2.1	Highest level of protection possible 1 ai	
4.1.8; 4.1.9; 4.1.10; 4.7; 4.9; 4.11.8.2; 4.11.10	1.2.1 https://s	Absence of risks and other inherent nuisance factors SIST EN ISO 15027-1:2013 tandards.iteh.ai/catalog/standards/sist/cbf4bdf0-c27a-4437-86d8-	
4.2.1	1.2.1.1	Suitable constituent/materials-15027-1-2013	
4.2.3.1	1.2.1.2	Satisfactory surface condition of all PPE parts in contact with the user	
4.2.2.2; 4.11; 4.11.9	1.2.1.3	Maximum permissible user impediment	
4.2.2.1; 4.11.6	1.3.1	Adaptation to user's morphology	
4.1.1; 4.1.5; 4.8; 4.11.6; 4.12	1.3.2	Lightness and design strength	
4.1.3; 4.1.6; 4.2.2.3; 4.4	1.3.3	Compatibility of different classes or types of PPE designed for simultaneous use	
4.1.7; 5; 6; 7	1.4	Information supplied by the manufacturer	
5 h	2.4	PPE subject to ageing	
5	2.12	PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety	
4.5	2.13	PPE in the form of clothing capable of signalling the user's presence visually	
4.11.8.1	3.4	Protection against drowning	
4.10	3.7	Protection against cold	

WARNING — Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

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INTERNATIONAL STANDARD

ISO 15027-1

Second edition 2012-11-01

Immersion suits —

Part 1:

Constant wear suits, requirements including safety

Combinaisons de protection thermique en cas d'immersion —

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ISO 15027-1:2012(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 15027-1 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 162, Protective clothing including hand and arm protection and lifejackets, in collaboration with Technical Committee ISO/TC 188, Small craft, Subcommittee SC 1, Personal safety equipment, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 15027-1:2002) which has been technically revised. The main technical changes are: 'ANDARD PREVIEW

- en S'I addition of "underclothing" under terms and definitions;
- addition of "cold shock" under terms and definitions;
- b)
- revision of requirements for buddy lines; SIST EN ISO 15027-1:2013 C) https://standards.iteh.ai/catalog/standards/sist/cbf4bdf0-c27a-4437-86d8-
- revision of requirements regarding conspiculity.c6/sist-en-iso-15027-1-2013 d)
- addition of Clause 6 "Information supplied by the manufacturer"; e)
- revision of consumer information label; f)
- reordering of subclauses; g)
- revision of requirements regarding thermal protection in water.

ISO 15027 consists of the following parts, under the general title *Immersion suits*:

- Part 1: Constant wear suits, requirements including safety
- Part 2: Abandonment suits, requirements including safety
- Part 3: Test methods

ISO 15027-1:2012(E)

Introduction

This part of ISO 15027 has been prepared to meet the needs of persons engaged in certain activities on or near water.

The justification for using a constant wear suit would be to provide protection in the event of accidental immersion, to prolong life and to aid rescue. An individual's estimated thermal protection time when wearing this type of equipment will depend upon the water temperature, weather conditions, clothing, the cold tolerance of the person and the person's behaviour. This part of ISO 15027 specifies the minimum levels of insulation provided by the different ranges of suit in particular water temperatures.

This part of ISO 15027 allows for thermal protection to be provided by a variety of methods and materials, some of which may require action when the suit enters the water (e.g. inflation of chambers by gas from a cylinder). The compliance of a constant wear suit with this part of ISO 15027 does not imply that it is suitable for all circumstances. This part of ISO 15027 cannot make detailed provision for all the special uses to which a constant wear suit may be put, such as special working conditions, i.e. slip resistance or fire resistance or special leisure applications.

This part of ISO 15027 is intended to serve as a minimum performance requirement for manufacturers, purchasers and users of constant wear suits by ensuring that they provide an effective standard of performance in use. Designers should encourage the wearing of this equipment by making it comfortable and functional for continuous wear on or near water.

The primary aims in wearing a constant wear suit are:

- a) to reduce the risk of cold shock and to delay the onset of hypothermia;
- b) to enable the user to propel himself in the water and extricate himself from the water without it becoming an encumbrance;
- c) to make the user sufficiently conspicuous in the water so as to aid his recovery.

The performance of the suit may be altered by a number of factors, including wave action or the wearing of additional equipment. Users, owners and employers should ensure that equipment is correctly maintained according to manufacturer's instructions.

A suit system may comprise one or more pieces provided that in all cases it meets the requirements of this part of ISO 15027 as a complete system.

A constant wear suit may often be worn with a lifejacket as it will provide extra flotation and may help to bring a person to a face-up position.

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