# INTERNATIONAL STANDARD

ISO 13688

Second edition 2013-07-15 **AMENDMENT 1** 2021-02

# **Protective clothing — General requirements**

**AMENDMENT 1** 

Vêtements de protection — Exigences générales AMENDEMENT 1

iTeh Standards (https://standards.iteh.ai) Document Preview

ISO 13688:2013/Amd 1:2021

https://standards.jteh.aj/catalog/standards/jso/9f051334-43db-49fb-812e-655b5ec5c6ef/jso-13688-2013-amd-1-202



## iTeh Standards (https://standards.iteh.ai) Document Preview

ISO 13688:2013/Amd 1:2021

https://standards.iteh.ai/catalog/standards/iso/9f051334-43db-49fb-812e-655b5ec5c6ef/iso-13688-2013-amd-1-202



#### **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

#### 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="www.iso.org/directives">www.iso.org/directives</a>).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see <a href="https://www.iso.org/patents">www.iso.org/patents</a>).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: <a href="https://www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

This document was prepared by ISO/TC 94, *Personal safety — Personal protective equipment*, SC 13, *Protective clothing*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <a href="https://www.iso.org/members.html">www.iso.org/members.html</a>.

ISO 13688:2013/Amd 1:2021

https://standards.iteh.ai/catalog/standards/iso/9f051334-43db-49fb-8f2e-655b5ec5c6ef/iso-13688-20f3-amd-f-202

## iTeh Standards (https://standards.iteh.ai) Document Preview

ISO 13688:2013/Amd 1:2021

https://standards.iteh.ai/catalog/standards/iso/9f051334-43db-49fb-812e-655b5ec5c6ef/iso-13688-2013-amd-1-2021

### **Protective clothing — General requirements**

### AMENDMENT 1

#### Foreword

#### Replace

"— Additional definitions on waist to waist over the shoulder length, and torso."

#### with

"— Additional definitions on waist to waist over the shoulder line, and torso."

#### Normative references

#### Replace

"ISO 3071, Textiles — Determination of pH of aqueous extract

ISO 3175-1, Textiles — Professional care, drycleaning and wetcleaning of fabrics and garments — Part 1: Assessment of performance after cleaning and finishing

ISO 3635, Size designation of clothes — Definitions and body measurement procedure

ISO 3758, Textiles — Care labelling code using symbols

ISO 4045, Leather — Chemical tests — Determination of pH

ISO 5077, Textiles — Determination of dimensional change in washing and drying

ISO 7000, Graphical symbols for use on equipment — Registered symbols

ISO 17075, Leather — Chemical tests — Determination of chromium(VI) content

ISO 30023, Textiles — Qualification symbols for labelling workwear to be industrially laundered

EN 1811, Reference test method for release of nickel from products intended to come into direct and prolonged contact with the skin

EN 14362-1, Textiles — Methods for determination of certain aromatic amines derived from azo colorants — Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres"

#### with

"ISO 3071:2020, Textiles — Determination of pH of aqueous extract

ISO 3175-1:2017, Textiles — Professional care, drycleaning and wetcleaning of fabrics and garments — Part 1: Assessment of performance after cleaning and finishing

ISO 3758:2012, Textiles — Care labelling code using symbols

ISO 4045:2018, Leather — Chemical tests — Determination of pH

ISO 5077:2007, Textiles — Determination of dimensional change in washing and drying

#### ISO 13688:2013/Amd.1:2021(E)

ISO 7000, Graphical symbols for use on equipment — Registered symbols

ISO 8559-1:2017, Size designation of clothes — Part 1: Anthropometric definitions for body measurement

ISO 8559-2:2017, Size designation of clothes — Part 2: Primary and secondary dimension indicators

ISO 14362-1:2017, Textiles — Methods for determination of certain aromatic amines derived from azo colorants — Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres

ISO 14362-3:2017, Textiles — Methods for determination of certain aromatic amines derived from azo colorants — Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene

ISO 17075-1:2017, Leather — Chemical determination of chromium(VI) content in leather — Part 1: Colorimetric method

ISO 17075-2:2017, Leather — Chemical determination of chromium(VI) content in leather — Part 2: Chromatographic method

ISO 30023:2010, Textiles — Qualification symbols for labelling workwear to be industrially laundered

EN 1811:2011+A1:2015, Reference test method for release of nickel from products intended to come into direct and prolonged contact with the skin"

Terms and definitions

Replace the actual definition 3.6 (https://standards.iteh.ai)

"3.6

waist to waist over the shoulder length Cument Preview

maximum length measured from the plane of the waist over the shoulder to the plane of the waist

Note 1 to entry See also Clause 6." dards/iso/9f051334-43db-49fb-812e-655b5ec5c6ef/iso-13688-2013-amd-1-2021

with

"3.6

waist to waist over the shoulder line

distance from the back waist level vertically up to the middle of the shoulder line, and vertically down to the waist level, over the bust point in the front

Note 1 to entry See also Clause 6."

 $4.2 \, a), \, b), \, c), \, d)$ 

Replace

- "a) Chromium VI content in leather clothing shall not exceed 3 mg/kg according to ISO 17075.
- b) All metallic materials which could come into prolonged contact with the skin (e.g. studs, fittings) shall have a release of nickel of less than 0,5  $\mu$ g/cm<sup>2</sup> per week. The method of test shall be according to EN 1811.
- c) Protective clothing material shall have a value greater than pH3,5 and less than pH9,5. The test method for leather shall be according to ISO 4045 and for textile materials according to ISO 3071.