INTERNATIONAL STANDARD

ISO 23407

> First edition 2021-11

Protective gloves against thermal risks (heat and/or fire)

Gants de protection contre les risques thermiques (chaleur et/ou feu) . а. чатки амени) Перчатки защитные от термических рисков (тепла и/или





© ISO 2021

mentation, no part c'al including phe'vel from either 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

Co	ntent	5	Page	
Fore	eword		v	
Intr	oductio	1	vi	
1			1	
2		mative references		
3	Terms and definitions			
4	Gene		3	
	4.1		3	
	4.2			
		4.3 Mechanical strength		
	4.4			
			300nt	
	4.5		nent	
	т.5		4	
			4	
			4	
			5	
		4.5.5 Radiant heat	5	
			n metal6	
		4.5.7 Large quantities of mol	en metal6	
5	Samı	ling and conditioning	6	
6	_	_	7	
O	6.1 General			
	0.1			
		6.1.2 Optional additional test	s	
	6.2	Limited flame spread		
			7	
			9	
	6.3		9	
			9	
			9	
	<i>C</i> 1		9	
	6.4			
			10	
	6.5	1	10	
		=	11	
		6.5.3 Test report	11	
	6.6	*		
		*		
	6.7		al12	
	6.8			
	0.0			
		6.8.2 Fauinment	12	

ISO 23407:2021(E)

6.8.3	Test specimen	1 4
6.8.4		
6.8.5 6.8.6		
	rest report.	
· / /)	n supplied by the manufacturer	16
Annex A (informat	ive) Examples of hands protective equipment against thermal domestic	17
	ive) Example of relevant tests to be performed depending of the field of	17
	roduct	18
Bibliography	Cy_	19
	Montis a preview senerated by the	

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 www.iso.org/directives).

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 www.iso.org/patents).

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

For an explanation of the voluntary nature of standards, 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 94, *Personal safety — Personal protective equipment*, Subcommittee 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 www.iso.org/members.html.

Introduction

This document has been developed to cover all type of personal protective equipment protecting the hand, a part of the hand or a part of the arm against thermal risks, no matter where they are used (professional use, consumer, domestic use...). This document is the adoption of the European Standard EN 407.

ig fa.
Ad prop.
3 after the
whichever ti. The document is adopted using fast-track procedure in line with the decision to adopt the European standard without changes and propose that any comments would be incorporated during the next revision schedule five years after the publication date. The intent for the next revision is to have a combined EN ISO standard whichever the EN or ISO standard is revised first.

Protective gloves against thermal risks (heat and/or fire)

1 Scope

This document specifies requirements, test methods, marking and information for protective gloves and other hand protective equipment against thermal risks for professional use, consumer, domestic use.

This document is also applicable to arm protective equipment.

It is used for all gloves and other hand protective equipment which protect the hands or part of the hand against heat and/or fire in one or more of the following forms: flame, contact heat, convective heat, radiant heat, small splashes or large quantities of molten metal.

This document is only applicable in conjunction with ISO 21420:2020.

This document does not apply to gloves for fire-fighters or welding that have their own standards.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6942:2002, Protective clothing — Protection against heat and fire — Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat

ISO~7500-1:2018, Metallic materials -- Calibration and verification of static uniaxial testing machines -- Part 1: Tension/compression testing machines -- Calibration and verification of the force-measuring system

ISO 9150:1988, Protective clothing — Determination of behaviour of materials on impact of small splashes of molten metal

ISO 9151:2016, Protective clothing against heat and flame — Determination of heat transmission on exposure to flame

ISO 9185:2007, Protective clothing — Assessment of resistance of materials to molten metal splash

ISO 12127-1:2015, Clothing for protection against heat and flame — Determination of contact heat transmission through protective clothing or constituent materials — Part 1: Contact heat produced by heating cylinder

ISO 15025:2016, Protective clothing - Protection against flame - Method of test for limited flame spread

ISO 21420:2020, Protective gloves — General requirements and test methods

EN 659:2003+A1:2008, Protective gloves for firefighters

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at https://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp