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Protective gloves — General requirements and test methods

Gants de protection — Exigences générales et méthodes d'essai

<u>ISO 21420:2020</u>

ISO/TC 94/SC 13

ISO 21420:2020(E)

ISO/TC 94/SC 13/WG 8

Date: 2020-02

Secretariat: SNV

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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.		
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## Introduction

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This document is a reference standard to be referred to as appropriate by the specific standards relevant or applicable to protective gloves.

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## **Protective gloves — General requirements and test methods**

#### 1 Scope

This document specifies the general requirements and relevant test procedures for glove design and construction, innocuousness, comfort and efficiency, as well as the marking and information supplied by the manufacturer applicable to all protective gloves.

It can also apply to arm protectors and gloves permanently incorporated in containment enclosures.

Gloves and hand protectors such as mittens, pot holders and arm protection are covered by this document.

This document does not address the protective properties of gloves and therefore is not used alone but only in combination with the appropriate specific standard(s). A non-exhaustive list of these standards is given in the Bibliography.

## 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.

JSO 3071, Textiles — Determination of pH of aqueous extract

ISO 3758, Textiles — Care labelling code using symbols devision and a second state of the second symbols devision of the sec

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

ISO 7000:2014, Graphical symbols for use on equipment — Registered symbols,

ISO 11092, Textiles — Physiological effects — Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test)

ISO 14268, Leather — Physical and mechanical tests — Determination of water vapour permeability.

JSO 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.

JSO/TS 16190, Footwear — Critical substances potentially present in footwear and footwear components — Test method to quantitatively determine polycyclic aromatic hydrocarbons (PAH) in footwear materials.

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

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

ISO 17234-1, Leather — Chemical tests for the determination of certain azo colorants in dyed leathers — Part 1: Determination of certain aromatic amines derived from azo colorants.

ISO 20344:2011, Personal protective equipment — Test methods for footwear.

JSO 23388, Protective gloves against mechanical risks

EN 1811+A1:2015, Reference test method for release of nickel from post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin

EN 16350, Protective gloves — Electrostatic properties

EN 16778, Protective gloves — Determination of dimethylformamide in gloves,

JEC 60417:2002, Graphical symbols for use on equipment

#### 3 Terms and definitions

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

#### 3.1

**dexterity** manipulative ability to perform a task with the hands

#### 3.2 glove

#### SO 21420:2020

personal protective equipment (PPE) which protects the hand or part of the hand against hazards. It can additionally cover part of the forearm and arm

#### 3.3

## glove palm

part of the glove which covers the palm of the hand, i.e. from the wrist to the base of the fingers

#### 3.4

### glove back

part of the glove which covers the back of the hand, i.e. from the wrist to the base of the fingers

#### 3.5 hand

2

end part of the body beyond the wrist, including palm, fingers and the thumb

Note 1 to entry: See Figure 1.

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#### Key

1 hand

2 back

#### Figure 1 — Definitions of hand, palm, back and wrist

### 3.6

**hazard** potential source of injury or damage to the health of people

#### 3.7

#### level of performance

number or letter that designates a particular category or range of performance by which the results of testing can be graded

Note 1 to entry: The level of performance is determined by the result of the corresponding test as described in the specific standards referred to in the Bibliography. 1SO 21420 2020

Note 2 to entry: A high level number or letter corresponds to a high level of performance. 24791-b8ee-86b3c08a69c0/so-

Note 3 to entry: Levels of performance are based upon the results of laboratory tests, which do not necessarily reflect actual conditions in the workplace.

#### 3.8

multilayer gloves

gloves containing more than one layer with some level of permanent connection between the layers.

## 4 General requirements

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### 4.1 Glove design and construction — General

The protective glove shall be designed and manufactured so that in the foreseeable conditions of use, the wearer can perform the activity as normally as possible with an appropriate protection. This document along with the appropriate specific standards shall be used to verify this adequation.

If required in the relevant specific standard (for example ISO 16073:2011, 5.7.3), the glove shall be designed to minimize the donning and doffing time.

For reusable multilayer gloves, the gloves shall be able to be doffed without separation of the layers of the fingers. When the glove construction includes seams, the material and strength of the seams shall be

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such that the overall performance of the glove is not significantly decreased as required in the relevant specific standards.

Test methods and requirements are stated in the specific standards listed in the Bibliography. The number of samples shall be as stated in the specific standard. If the standard requests at least *x* samples then *x* samples shall be tested. For uncertainties of measurement, see Annex D.

#### 4.2 Innocuousness of protective gloves

Protective gloves shall not adversely affect the health or hygiene of the user. The materials should not, in the foreseeable conditions of normal use, release substances generally known to be toxic, carcinogenic, mutagenic, allergenic, toxic to reproduction, corrosive, sensitizing or irritating.

NOTE 1 Information on the classification and identification of hazardous substances can be found, e.g. in References [22] and [27].

NOTE 2 Guidance on how to consider acceptability of materials in protective gloves is given in the flow chart in Annex E.

Materials should be selected to minimize the environmental impact of the production and disposal of protective gloves (see also Annex F).

The examination shall determine whether the claim that the materials are suitable for use in the protective gloves is justified. Particular attention shall be paid to the presence of plasticisers, unreacted components, heavy metals, impurities and the chemical identity of pigments and dyes.

a) Chromium VI content in gloves containing leather shall be tested according to JSO 17075-1 or JSO 17075-2 and shall be less than 3,0 mg/kg of leather.

Depending on the measured Chromium VI content, the test report shall indicate:

- that the Chromium VI content is less than 3,0 mg/kg, or O 21420:2020
- that Chromium VI content is equal to or above 3,0 mg/kg and the value that has been determined in mg/kg.

If the glove includes different types of leather, whether in contact with the skin or not, each leather type shall be tested separately and comply with the above requirement.

- b) All metallic materials which could come into prolonged contact with the skin (for example studs, fittings) shall have a release of nickel of less than  $0.5 \ \mu g/cm^2$  per week. The method of test shall be in accordance with EN 1811+A1:2015.
- c) All glove materials shall have a value greater than pH 3,5 and less than pH 9,5. The test method for leather shall be in accordance with ISO 4045 and for other materials in accordance with ISO 3071.

The following additional requirements shall apply:

- the test piece shall be cut out from the palm area of the glove. If other parts of the glove are made of different materials, then each material shall be tested separately and comply with the above requirements;
- if gloves are made of more than one layer, all layers shall be tested <u>separately</u>;
- ISO 4045:2018, 8.4, does not apply.

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- d) Azo colorants which release carcinogenic amines listed in JSO 14362-1 for all textile materials and ISO 17234-1 for all leathers shall not be detectable by the method in these standards.
- e) Dimethylformamide (DMFa) in gloves containing PU shall not exceed 1 000 mg/kg (0,1 % weight/weight). The test method shall be in accordance with EN 16778.
- Polycyclic aromatic hydrocarbons (PAHs) as listed in Table 1, shall not exceed 1 mg/kg (0,000 1 % f by mass of this component), for the rubber or plastic materials intended to come in direct contact with the skin. The test method shall be in accordance with ISO/TS 16190.

	PAHs designation	CAS No
1	Benzo[a]pyrene (BaP)	50-32-8
2	Benzo[e]pyrene (BeP)	192-97-2
3	Benzo[a]anthracene (BaA)	56-55-3
4	Chrysene (CHR)	218-01-9
5	Benzo[b]fluoranthene (BbFA)	205-99-2
6	Benzo[j]fluoranthene (BjFA)	205-82-3
7	Benzo[k]fluoranthene (BkFA)	OIS.ITC 207-08-9
8	Dibenzo[a,h]anthracene (DBAhA)	53-70-3
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#### Table 1 — List of PAHs

## 4.3 Cleaning

If not otherwise specified, all tests required by this document as well as in the specific standards for protective gloves shall be performed on unused gloves.

If care instructions are provided (see 7.3.14), the relevant performance-related tests of this document and the specific standards (see Bibliography) shall be performed on the gloves, before and after they have been subjected to the maximum recommended number of cleaning cycles using the claimed cleaning instructions. The levels of performance are given by the lowest results obtained before and after cleaning.

The warning on tear resistance gloves in close proximity of rotating machinery shall be given on the basis of the highest tear performance level according to JSO 23388 whether tested before or after cleaning. In case of rotating machinery, the glove should tear prior to the hand getting caught in the moving parts of the machine.

## 4.4 Additional properties

## 4.4.1 Electrostatic properties

For protective gloves that are intended to be worn in areas where flammable or explosive risks exist or might be present, the electrostatic properties shall be tested according to the test method described in EN 16350.

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For gloves meeting the requirement in EN 16350, the corresponding pictogram given in Table C.1 can be used for marking. Reference to EN 16350 shall be affixed to it as shown in Figure 2.

\_\_\_\_\_

In the case that surface electrostatic properties or charge decay need to be determined as additional parameters, EN 1149-1 or EN 1149-3 should be used to determine further electrostatic properties of the gloves. The corresponding test results may be reported in the information supplied by the manufacturer but cannot be used to apply the pictogram.

EN 16350



### 5 Comfort and efficiency

## 5.1 Sizing and measurement of gloves

Sizes of gloves are defined with respect to the sizes of the hands they are to fit. See Figure 1 and Annex B.

The hand sizing system should be based on hand circumference and hand length as defined in Annex B. If a different sizing system from the one in Annex B is used, it shall be explained to the user.

If required for specific use (for example, gloves for welders and firefighters), the minimum glove length shall be defined in the relevant specific standards and measured according to 6.1.

#### 5.2 Dexterity

A glove should allow as much dexterity as possible given its purpose, as required in the appropriate specific standard. Dexterity is related to numerous factors e.g. thickness of glove material, its elasticity, its deformability.

If required in specific use (for example gloves for welders), finger dexterity shall be tested according to the test method in *6*.2.

The performances shall be graded according to Table 2 hereafter. If no pin can be picked up, then the level is 0.

Table 2 —	Levels of	f performance —	Finger c	lexterity	test
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Level of performance	Smallest diameter of pin fulfilling test conditions mm
1	11,0
2	9,5
3	8,0
4	6,5

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	5		5,0	1		1	
5.3 Breat	hability and co	omfort					
5.3.1 Wate	er vapour transi	mission					
Where prac following r	cticable, protecti equirements:	ve gloves shall	allow water vapour tr	ansmission. All mater	ials shall fulfil the		
If this prop 5 mg/(cm <sup>2</sup>	perty is claimed ·h) when tested a	for a leather g according to 6.3	glove, it shall have a	water vapour transm	nission of at least	·	Formatted: Font:
If this prop 30 m²∙Pa/V	erty is claimed fo N when tested ac	or a textile glov cording to 6.3.2	e, it shall have a water 2.	vapour resistance les	ss than or equal to	·	Formatted: Font:
5.3.2 Wate	er vapour absor	ption					
Where the practicable	protection chara , the gloves shall	acteristics of th be designed to	e glove inhibit or exc reduce the perspiration	lude water vapour tra on absorption as mucl	ansmission, when h as possible.		
If this prop 8 mg/cm <sup>2</sup> f	perty is claimed for 8 h when test	for a leather ed according to	glove, it shall have a 6.4.2.	a water vapour abso	rption of at least	·	Formatted: Font:
6 Test i	procedures					l	
6.1 Measu	urement of glo	ve length					
6.1.1 Proc	edure						
Before test and testing	ing, samples shal shall be started	ll be conditione within 10 min a	ed for at least 24 h at 2 after removal from cor	3 ± 2 °C and 50 ± 5 % iditioning.	relative humidity		
For each s middle fing the glove. I record the	ize, 3 gloves sha ger on a vertical g Remove wrinkles minimum measu	all be tested. M graduated ruler s and folds with red length to th	feasure the length by having a rounded tip hout stretching the glo he nearest millimetre.	freely suspending the solution of the suspending the solution of the shape ove. Turn the glove and the solution of the solutio	he glove with the of the finger tip of round the pin and		
NOTE 1 S	See typical shape a	nd dimensions fo	or a vertical graduated ru	iler in Figure 3.		·	Formatted: Font: 10 pt
				Dimen	sions in millimetres		
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6.2.4 Test result		
The result corresponds to the smallest diameter of the pin that can be picked up according to the procedure in 6.2.3. The test result is the smallest performance level obtained on the 4 gloves.		Formatted: Font:
6.2.5 Test report		
The test report shall contain the information in 6.5. The performance level shall be given in accordance with Table 2.		Formatted: Font:
6.3 Test method for determination of water vapour behaviour		Pomatted. Font.
6.3.1 Leather materials		
6.3.1.1 Sampling		
Only the main leathers (excluding e.g. reinforcements) used in glove palm and glove back shall be tested.		
If the materials are different in palm and back, both sides shall be tested.		
In case of multilayer construction, the textile lining materials shall be tested and reported separately according to 6.3.2.		Formatted: Font:
6.3.1.2 Test procedure		
The test shall be performed in accordance with ISO 14268.		Formatted: Font:
6.3.2 Textile materials		Formatted: Font:
6.3.2.1 Sampling		
A sample of material as required in ISO 11092 shall be tested, provided the sample material and construction are identical with that of the glove.		Formatted: Font:
If the materials are different in palm and back, both sides shall be tested.		Formatted: Font:
6.3.2.2 Test procedure		
The test shall be performed in accordance with JSO 11092.		Formatted: Font:
6.4 Test method for the determination of water vapour absorption of leather materials		Formatted: Font:
6.4.1 Sampling		
Only the main leathers (excluding e.g. reinforcements) used in glove palm and glove back shall be tested.		
In case of multilayer construction, the textile lining materials shall be removed before testing. 6.4.2 Test procedure		
The test shall be performed in accordance with ISO 20344:2011, 6.7.		Formatted: Font:
6.5 Test report		Formatted: Font:
The test report shall contain the following information:		Formatted: Font:
a) a reference to the clause of the relevant standard:	Ň	Formatted: Font:
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