

Certificate of authorization

By this letter we confirm, that the company "TechPlanet" SRL, address: (rl. Orhei, Republic of Moldova), fiscal code: 1017606000085, VAT code: 7401154, is a partner of the manufacturer

"Holík International" s.r.o. (Za Dvorem 612, 763 14 Zlín 12, Czech Republic) and is authorized to promote and sell our products in the territory of the Republic of Moldova.

All work processes fully comply with our quality certificates.

Certificat de autorizare

Prin această scrisoare confirmăm, că compania "TechPlanet" SRL, adresa: (rl. Orhei, Republica Moldova), cod fiscal: 1017606000085, cod TVA: 7401154, este un partener al producătorului

"Holík International" s.r.o. (Za Dvorem 612, 763 14 Zlín 12, Republica Cehă) și are autorizare de a promova și vinde produsele noastre pe teritoriul Republicii Moldova.

Toate procesele de lucru respectă pe deplin certificatele noastre de calitate.

The authorization is valid till 31st December 2020

Zlín, 14th February 2020

Marek Štefan
sales manager





Notified Body No. 1023
INSTITUTE FOR TESTING AND CERTIFICATION, Inc.
trida Tomase Bati 299, Louky, 763 02 Zlín, Czech Republic
www.itczlin.cz

EU Type-Examination Certificate

No. 18 0300 T/NB

issued in the compliance with the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC, for personal protective equipment of category III:

Operating Gloves for firefighters, types:
Chelsea-8009, Diamond-8008, Karla-8013
Mercedes-8018, Crystal-8005, Meadow-8038

Manufacturer:
HOLÍK International s.r.o.
Za Dvorem 612, 763 14 Zlín 12, Czech Republic
VAT No: CZ25322214

This Certificate confirms that above referenced personal protective equipment (PPE) fulfils the essential health and safety requirements as they are stated in the Regulation (EU) 2016/425 of the European Parliament and of the Council, specified in detail in the harmonized technical standards:

ČSN EN 420:2004 + A1:2010 (EN 420:2003 + A1:2009)
ČSN EN 659:2004+A1:2008 (EN 659:2003+A1:2008)

The PPE is produced in compliance with the manufacturer's technical file and it can be used in complete safety for its intended purpose. The detailed product descriptions, the results of technical file examination as well as the test results including their evaluation are presented in the ITC's Evaluation Report No. 723301588/01/2018 that is an integral part of this Certificate.

Condition of this certificate use and related information:

1. It applies only to the type of the category III PPE submitted to test referenced above.
2. It does not imply that the Notified Body has performed any surveillance or control of PPE manufacture.
3. The manufacturer is obligated to assure that all PPEs of the respective type conform to type approved by this Certificate, which must be used only in conjunction with one of the conformity assessment procedures referred to in Article 19 (c) either of the following: conformity to type based on internal production control plus supervised product checks at random intervals (module C2) set out in Annex VII or conformity to type based on quality assurance of the production process (module D) set out in Annex VIII Regulation of the European Parliament and of the Council (EU) 2016/425.
4. The manufacturer shall inform the Notified Body of all technological changes in manufacture of the approved type and as consequence of the technical advances he shall regularly keep himself informed of any standard changes as well as modifications of testing methods conducted by Notified Body, which shall approve these changes in necessary cases by the amendment of this Certificate.
5. The manufacturer shall affix to each PPE of the approved type the conformity mark CE followed by Notified Body number, which approves the system of production control in accordance with Annex VII (module C2) or VIII (module D) the Regulation (EU) 2016/425 of the European Parliament and of the Council, according to the principles laid down in Regulation (EC) no. 765/2008.

Issued in Zlín, on 16th July 2018
Valid until: 15th July 2023




RNDr. Radomír Čevalík
Representative of the Notified Body No. 1023



EU DECLARATION OF CONFORMITY

Firefighting gloves for firemen, type:

Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Manufacturer:

Holík International s.r.o.

Za Dvorem 612,

763 14, Zlín 12

This declaration of conformity is issued under the sole responsibility of manufacturer: Holík International s.r.o.

Firefighting gloves for firemen, type: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038 do comply with the basic requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and fulfils the essential health and safety requirements as they are stated in the harmonized technical standards ČSN EN 659:2004+A1:2008.

Institute for Testing and Certification NB 1023

Tř. T. Bati 299

764 21 Zlín – Louky,

Performed the EU type-examination (Module B) and issued the EU type-examination Certificate No. 18 0300 T/NB and Evaluation Report Ref.No.: 723301588/01/2018.

The PPE is subject to the conformity assessment procedure according Module C2 under surveillance of the notified body 1023.

This Declaration of Conformity is available on web site www.holik-international.com.

In Zlín 12, 16 July 2018



Signature

HOLÍK INTERNATIONAL s.r.o.
ZA DVOREM 612, 763 14 ZLÍN 12
Tel: +420 577 125 500 Fax: +420 577 125 555
IČO: 253 22 214, DIČ: CZ25322214

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INSTITUTE FOR TESTING AND CERTIFICATION

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

EVALUATION REPORT

Ref. No.: 723301588/01/2018

Customer: HOLIK International s.r.o.
Za Dvorem 612
763 14 Zlín 12
Czech Republic

Product: Operating Gloves for Firefighters, types:
Chelsea-8009, Diamond-8008, Karla-8013,
Mercedes-8018, Crystal-8005, Meadow-8038

Appendix: Drawing of the Product

Author: Dipl. Ing. Miroslava Dostálová

Issued on: 2018-07-16



RNDr. Radomír Čevelík
Representative of Notified Body No. 1023



Introduction

This Evaluation Report was issued on the basis of Application No. 723301588 for the assessment of conformity of personal protective equipment (PPE) with the basic requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

This assessment should prove the fulfilment of EU legislation requirements for the purpose of the access of the assessed products to the EU market.

1. Identification of assessed personal protective equipment

A detailed description of the design and structure, including the drawing documentation and specifications of materials used, is given in the file of technical documentation of the product called "Operating Gloves for firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038".

The submitted documentation covers the following models and alternatives of the product:

Operating Gloves for firefighters, types:

Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Design and used material:

These products are five-fingers gloves with identical basic material composition. The difference is in cuff and in finger reinforcement. Chelsea and Mercedes are designed with long cuff, Diamond a Crystal have short knitted cuff, Karla a Meadow have special, so called Compact cuff. All the models have reinforcement on the back and on the top of fingers, models Mercedes, Crystal, Meadow have protective reinforcement of knuckles, in addition. Connected to the back reinforcement there are warning elements shaped as triangles. Between upper and lining there is PU membrane. It is leakproof for blood, bacteria, chemicals. All the models have identical material of palm and back, i.e. identical properties essential for assessment, so that they are in one type series. Basic glove material composition is described in the Table I. Drawings of the assessed PPE see Annex hereto, address of the manufacturing plant is identical with address of the applicant.

Table I: Material composition of gloves

Part		Chelsea Mercedes	Diamond Crystal	Karla Meadow
Palm	Upper	Coated aramide knitwear		
	Innerlining	Membrane PU-FR		
	Lining	Aramide textile knitwear		
Back	Upper	Textile fabric Nomex (blue, red, ev. other colours)		
	Reinforcement	Coated aramide knitwear		
	Innerlining	Aramide non-woven textile		
	Lining	Membrane PU-FR		
Cuff	Frontside	Textile fabric Nomex (several colours), textile and synt. material strap	Aramide textile knitwear	Textile fabric Nomex (several colours) and coated textile, ev. cow split leather, textile and synt. material strap
	Underside	Aramide textile knitwear and flame resistant cotton fabric	Aramide textile knitwear	Aramide textile knitwear and flame resistant cotton fabric



Intended use of protective personal equipment:

The product is ranked among the personal protective equipment the fundamental purpose of which is a protection of hands from injuries that may be sustained during accidents in the working spheres for which the gloves are intended. With respect to their service characteristics the gloves are intended notably for rescue and firefighting squads. The gloves protect the hands during normal firefighting, including search and rescue. They serve as a protection not only against thermal but also mechanical threats to hands and permit also work in a damp environment and protection against liquid chemicals.

Classification of protective personal equipment:

Operating gloves for firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038 were classified as PPE Category III by the manufacturer.

2. Technical documentation

Technical documentation was submitted in the Czech language to assess the conformity of the Operating gloves for firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038" on 2018-07-04. The file of technical documentation contains the items in according to Annex III of the Regulation (EU) 2016/425 of the European Parliament.

3. Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

3.1 Basic requirements for the product and its specification in technical specifications

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC setting out technical requirements for personal protective equipment.

Tables No. II to IV state the analysis of applicability of basic requirements according to Annex II of Regulation (EU) 2016/425 in the right column, supplemented in case of applicable requirements by articles of harmonised standards stated in their harmonisation annex ZA or other technical specifications used for proving the conformity with respective partial requirement. "A" letter in the third column of the tables means that these requirements has been used for the given PPE, the "N/A" abbreviation (not applicable) means the requirement does not apply to the given PPE because it is irrelevant for the given intended use and/or the material used.

Column 4 of Tables No. II – IV states the articles of harmonised standards which are linked, by means of cross links in the harmonisation annex ZA, to the respective basic requirement of Regulation (EU) 2016/425. Meeting these articles of the harmonised standard proves the conformity of the product with the given basic requirement stated in the right column.

The fifth column of Tables No. II - IV states the articles of non-harmonised technical specifications by which the manufacturer proves the conformity with the respective basic requirement which is not included in harmonisation. These can be articles of non-harmonised national or international standards as well as articles of harmonised standards which are not connected with the given requirement by a link in the harmonisation annex ZA. In extraordinary cases, the respective basic requirement can be set quite specifically by the Regulation so the conformity can be assessed directly with this article of the Regulation without any necessity to specify the required by means of a harmonised standard or other technical specification.

In case of applicable requirements, the last column of Tables No. II - IV states the assessment of the given requirement, whether PPE passes or does not pass. "P" letter means PPE passes the given requirement, "N/P" means it does not pass it.



Table II: Overview of basic requirements and technical specifications used in the PPE design. General requirements applicable to all PPE

Requirement number in Annex II	Requirement description	Application A – N/A	Article of the harmonised standard specifying the requirement (according to Annex ZA)	Other technical specification or the manner of proving the compliance with the requirement	Assessment P – N/P
1.1	Design principles	A		EN 420+A1 Art. 4.1	P
1.1.1	Ergonomics	A	EN 659+A1 Art. 3.1 to 3.8	EN 420+A1 Art. 5	P
1.1.2	Levels and classes of protection	A		See requirements 1.1.2.1, 1.1.2.2 below	P
1.1.2.1	Optimum level of protection	A	EN 659+A1 Art. 3.3 to 3.15, 3.17, 3.18		P
1.1.2.2	Classes of protection appropriate to different levels of risks	A		EN 388 Art. 4	P
1.2	Innocuousness of PPE	A		See requirement 1.2.1, 1.2.1.1, 1.1.2.1 and 1.2.1.3 below	P
1.2.1	Absence of risks and other inherent nuisance factors	A	EN 659+A1 Art. 3.1, 3.15	EN 420+A1 Art. 4.3	P
1.2.1.1	Suitable constituent materials	A	EN 659+A1 Art. 3.1, 3.11 EN 420+A1 Art. 4.3		P
1.2.1.2	Satisfactory surface condition of all PPE parts in contact with the user	A	EN 659+A1 Art. 3.1	EN 420+A1 Art. 4.3, 5	P
1.2.1.3	Maximum permissible user impediment	A	EN 659+A1 Art. 3.2, 3.13, 3.15 EN 420+A1 Art. 5.2		P
1.3	Comfort and effectiveness	A		See requirement 1.3.1, 1.3.2 below	P
1.3.1	Adaptation of PPE to user morphology	A	EN 659+A1 Art. 3.2 EN 420+A1 Art. 5.1		P
1.3.2	Lightness and design strength	A	EN 659+A1 Art. 3.14	EN 420+A1 Art. 4.1	P
1.3.3	Compatibility of different classes or types of PPE designed for simultaneous use	N/A			
1.3.4	Protective clothing containing removable protectors	N/A			
1.4	Manufacturer's instructions and information	A	EN 659+A1 Art. 5, 6 EN 420+A1 Art. 7.3		P



Table III: Overview of basic requirements and technical specifications used in the PPE designing. Additional requirements common to several classes or types of PPE

Requirement number in Annex II	Requirement description	Application A – N/A	Article of the harmonised standard specifying the requirement (according to Annex ZA)	Other technical specification or the manner of proving the compliance with the requirement	Assessment P – N/P
2.1	PPE incorporating adjustment systems	A	EN 659+A1 Art. 3.2		P
2.2	PPE enclosing the parts of the body to be protected	A	EN 659+A1 Art. 3.1	EN 420+A1 Art. 5.3	P
2.3	PPE for the face, eyes and respiratory system	N/A			
2.4	PPE subject to ageing	A	EN 659+A1 Art. 3.1 EN 420+A1 Art. 4.4, 7.2.3		P
2.5	PPE which may be caught up during use	N/A			
2.6	PPE for use in potentially explosive atmospheres	N/A			
2.7	PPE intended for rapid intervention or to be put on or removed rapidly	A	EN 659+A1 Art. 3.15		P
2.8	PPE for intervention in very dangerous situations	A		EN 659+A1 Art. 1, Annex B	P
2.9	PPE incorporating components which can be adjusted or removed by the user	N/A			
2.10	PPE for connection to complementary equipment external to the PPE	N/A			
2.11	PPE incorporating a fluid circulation system	N/A			
2.12	PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	A	EN 659+A1 Art. 5 EN 420+A1 Art. 7.2, Annex B		P
2.13	PPE capable of signalling the user's presence visually	N/A			
2.14	'Multi-risk' PPE	A	EN 659+A1 Art. from 3.3 to 3.8		P

**Table 3: Overview of basic requirements and technical specifications used in the PPE designing. Additional requirements specific to particular risks**

Requirement number in Annex II	Requirement description	Application A – N/A	Article of the harmonised standard specifying the requirement (according to Annex ZA)	Other technical specification or the manner of proving the compliance with the requirement	Assessment P – N/P
3.1	Protection against mechanical impact	N/A			
3.1.1	Impact caused by falling or ejected objects and collision of parts of the body with an obstacle	N/A			
3.1.2	Falls	N/A			
3.1.2.1	Prevention of falls due to slipping	N/A			
3.1.2.2	Prevention of falls from a height	N/A			
3.1.3	Mechanical vibration	N/A			
3.2	Protection against static compression of part of the body	N/A			
3.3	Protection against mechanical injuries	A	EN 659+A1 Art. from 3.3 to 3.6		P
3.4	Protection in liquids	N/A			
3.4.1	Prevention of drowning	N/A			
3.4.2	Buoyancy aids	N/A			
3.5	Protection against the harmful effects of noise	N/A			
3.6	Protection against heat and/or fire	A	EN 659+A1 Art. from 3.7 to 3.12		P
3.6.1	PPE constituent materials and other components	A	EN 659+A1 Art. 3.7, 3.8, 3.9		P
3.6.2	Complete PPE ready for use	A	EN 659+A1 Art. 3.17, 3.18		P
3.7	Protection against cold	N/A			
3.7.1	PPE constituent materials and other components	N/A			
3.7.2	Complete PPE ready for use	N/A			
3.8	Protection against electric shock	N/A			
3.8.1	Insulating equipment	N/A			
3.8.2	Conductive equipment	N/A			
3.9	Radiation protection	N/A			
3.9.1	Non-ionising radiation	N/A			
3.9.2	Ionising radiation	N/A			
3.9.2.1	Protection against external radioactive contamination	N/A			
3.9.2.2	Protection against external irradiation	N/A			



Requirement number in Annex II	Requirement description	Application A – N/A	Article of the harmonised standard specifying the requirement (according to Annex ZA)	Other technical specification or the manner of proving the compliance with the requirement	Assessment P – N/P
3.10	Protection against substances and mixtures which are hazardous to health and against harmful biological agents	N/A			
3.10.1	Respiratory protection	N/A			
3.10.2	Protection against cutaneous and ocular contact	N/A			
3.11	Diving equipment	N/A			

When designing the product, the manufacturer applied the following standards harmonised to Regulation (EU) 2016/425, see Table V:

Table V: Relevant harmonized standards

Technical standard	Name
ČSN EN 420:2004+A1:2010 (EN 420:2003+A1:2009)	Ochranné rukavice - Všeobecné požadavky a metody zkoušení (Protective gloves. General requirements and test methods)
ČSN EN 659:2004+A1:2008 (EN 659:2003+A1:2008)	Ochranné rukavice pro hasiče (Protective gloves for firefighters)

The following EC Type Certificates were issued by Institut pro testování a certifikaci a.s. Zlín – NB 1023 for the product specified in Art. 1:

- models **Chelsey, Diamond, Karla**: EC Type Certificate No. 13 0535 T/NB dated 2013-06-11, issued on the base of Final Report ref. No. 723300934/02/2013 dated 2013-06-11. The validity of certificate will expire on 2018-06-10.
- models **Mercedes, Crystal, Meadow**: EC Type Certificate No. 13 0540 T/NB dated 2013-06-12, issued on the base of Final Report ref. No. 723300934/03/2013 dated 2013-06-12. The validity of certificate will expire on 2018-06-11.

With respect to the expiration dates above mentioned certificates were cancelled and new certificate will be issued. Manufacturing technology and used materials remain unchanged (see document marked D16 in Table VIII).

3.2 Indicators specifying basic requirements and test methods

Indicators specifying applicable basic requirements (marked with "A" in the third column of Tables II to IV):



General requirements – innocuousness and ergonomic requirements:

- Glove design and construction - ČSN EN 420+A1, Art. 4.1
- Innocuousness - general - ČSN EN 420+A1, Art. 4.3.1
- Determination of pH value - ČSN EN 420+A1, Art. 4.3.2
- Determination of Cr⁶⁺ value - ČSN EN 420+A1, Art. 4.3.3
- Determination of glove sizes and glove measurement - ČSN EN 420+A1, Art. 5.1 and ČSN EN 659+A1, Art. 3.2
- Determination of dexterity - ČSN EN 420+A1, Art. 5.2; ČSN EN 659+A1, Art. 3.13
- Time for the removal of gloves - ČSN EN 659+A1, Art. 3.15
- Water vapour absorption - ČSN EN 420+A1 Art. 5.3.2
- Whole glove integrity test – ISO 15383, Annex A
- Hygienic properties

Requirements for performance - resistance to mechanical risks:

- Determination of abrasion resistance - ČSN EN 659+A1, Art. 3.3
- Determination of cut resistance - ČSN EN 659+A1, Art. 3.4
- Determination of tear strength - ČSN EN 659+A1, Art. 3.5
- Determination of puncture resistance - ČSN EN 659+A1, Art. 3.6
- Seam breaking strength - ČSN EN 659+A1, Art. 3.14

Requirements for performance - resistance to thermal risks:

- Burning behaviour - ČSN EN 659+A1, Art. 3.7
- Convective heat resistance - ČSN EN 659+A1, Art. 3.8
- Radiant heat resistance - ČSN EN 659+A1, Art. 3.9
- Contact heat resistance - ČSN EN 659+A1, Art. 3.10
- Heat resistance of the lining material - ČSN EN 659+A1, Art. 3.11
- Heat shrinkage - ČSN EN 659+A1, Art. 3.12

Requirements for performance - resistance to chemical risks:

- Resistance to liquid chemical penetration - ČSN EN 659+A1, Art. 3.18

Marking, information supplied by the manufacturer:

- Marking, classification - ČSN EN 659+A1 Art. 5, ČSN EN 420+A1 Art. 7
- Information supplied by the manufacturer - ČSN EN 420+A1 Art. 7.3

3.2 Test methods

The submitted samples of the product assessed, protective gloves, were tested employing test methods specified in Table VI:

Table VI: Test methods and standards used for testing

Test method	Used standard
Protective gloves. General requirements and test methods	ČSN EN 420+A1 (EN 420+A1)
- Determination of pH value	- Art. 4.3.2
- Hand and gloves measurement and dimensions	- Art. 6.1
- Test method for determining gloved finger dexterity	- Art. 6.2
Protective gloves against mechanical risks	ČSN EN 388 (EN 388)
- Abrasion resistance	- Art. 6.1
- Resistance to blade cutting	- Art. 6.2
- Tear strength	- Art. 6.4
- Puncture resistance	- Art. 6.5

**Table VI: Test methods and standards used for testing**

Test method	Used standard
Protective gloves for firefighters - Burning behaviour - Convective heat resistance - Radiant heat resistance - Contact heat resistance - Heat resistance of lining material - Heat shrinkage - Time for the removal of gloves - Whole glove integrity test - Resistance to liquid chemical penetration	ČSN EN 659+A1 (EN 659+A1) - Art. 3.7 - Art. 3.8 - Art. 3.9 - Art. 3.10 - Art. 3.11 - Art. 3.12 - Art. 3.15 - Art. 3.17 - Art. 3.18
Leather – Chemical tests – Determination of pH	ČSN EN ISO 4045 (EN ISO 4045)
Textiles – Determination of pH of aqueous extract	ČSN EN ISO 3071 (EN ISO 3071)
Leather – Chemical tests – Determination of Cr (VI) content	ČSN EN ISO 17075 (EN ISO 17075)
Textile fabrics – Burning behaviour – Measurement of flame spread properties of vertically oriented specimens	ČSN EN ISO 6941 (EN ISO 6941)
Protective gloves against thermal risks /heat and/or fire/	ČSN EN 407 (EN 407)
Clothing to protect against heat and flame – Determination of contact heat transmission through clothing or constituent materials – Part 1: Contact heat produced by heating cylinder	ČSN EN ISO 12127-1 (EN ISO 12127-1) (replacement of ČSN EN 702)
Protective clothing against heat and flame – Determination of heat transmission on exposure to flame	ČSN EN ISO 9151 (EN ISO 9151) (replacement of ČSN EN 367)
Protective clothing. Protection against heat and fire. Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat	ČSN EN ISO 6942 (EN ISO 6942)
Textiles – Seam tensile properties of fabrics and made-up textile articles – Part 2: Determination of maximum force to seam rupture using the grab method	ČSN EN ISO 13935-2 (EN ISO 13935-2)
Protective clothing – Protection against liquid chemicals – Determination of resistance of materials to penetration by liquids	ČSN EN ISO 6530 (EN ISO 6530)
Clothing and equipment for protection against heat – Test method for convective heat resistance using a hot air circulating oven	ISO 17493
Protective gloves for firefighters – Laboratory test method and performance requirements	ISO 15383
Visual evaluation of marking, classification, information provided by the manufacturer	ČSN EN 659+A1 Art. 5, ČSN EN 420+A1 Art. 7

3.4 Place and scope of sampling

Samples of the assessed product were delivered by the customer on 2018-07-02 in compliance with instructions of the designated worker of the Notified Body NB 1023 at the quantity of 3 pairs and 6 halfpairs. With regard to the fact that this is the EU type examination by a notified body, the Customer asking for assessing the conformity is responsible for selecting a sample (or prototype). The test examination does not include inspection activity focused on the conformity of properties of all products introduced to the market with the assessed (proto)type.



3.5 Place of performing the tests and assessment

Tests were performed in the following accredited testing laboratories: Institut pro testování a certifikaci, a.s., (Institute for Testing and Certification, a.s.), Zlín, AZL No. 1004 and VÚBP v.v.i. Praha, AZL No. 1040 (radiant heat resistance), both Czech Republic. The tests were completed in June 2018. The documentation was examined and visual inspection and product type assessment were performed in Institute for testing and certification, a.s.

3.6 Results of tests and assessment

Results of the personal protective equipment evaluation are summarised in Table VIII. Test methods stated in respective part of Table VI were used.

Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment ¹⁾	Value required	Results obtained ²⁾	Number of document ³⁾	Assessment
General requirements Glove design and construction - generally (EN 420+A1 Art. 4.1)	- in the foreseeable conditions of use the user can perform the hazard related activity normally whilst enjoying appropriate protection at the highest possible level - the gloves must be possible easy to dress and remove - performance of the material and strength of the seams shall not be significantly decreased	- the user can perform the activities normally - it is possible easy to dress and remove - performance is not decreased	D2	pass
Innocuousness Generally (EN 420+A1 Art. 4.3.1)	- the protective glove shall be designed and manufactured to provide protection when used to the instructions, without harm to the user when so used - glove materials shall not adversely affect the user's health and hygiene - the allergens must be described if they are known	- the protection of user is provided for - they do not affect - allergens are not known	D1, D2, D15	pass
pH value (EN 420+A1 Art. 4.3.2) - palm sandwich - back sandwich - aramide knitwear - non-flammable cotton fabric - cow split leather	3.5 up to 9.5	6.77 6.88 6.86 6.96 3.81	D7 D7 D11 D10 D8	pass
Cr ⁶⁺ content (EN 420+A1 Art. 4.3.3) - cow split leather	max. 3 mg/kg	< 3 mg/kg	D8	pass



Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment ¹⁾	Value required	Results obtained ²⁾	Number of document ³⁾	Assessment
Glove circumference – Chelsea (EN 420+A1 Art. 5.1.1) - for hand size	minimum hand circumference	hand circumference		
6	152 mm			
7	178 mm			
8	203 mm			
9	229 mm	258 mm	D4	pass
10	254 mm	272 mm	D2	pass
11	279 mm			
Glove circumference – Diamond (EN 420+A1 Art. 5.1.1) - for hand size	minimum hand circumference	hand circumference		
6	152 mm			
7	178 mm			
8	203 mm			
9	229 mm	258 mm	D4	pass
10	254 mm	280 mm	D2	pass
11	279 mm			
Glove circumference – Karla (EN 420+A1 Art. 5.1.1) - for hand size	minimum hand circumference	hand circumference		
6	152 mm			
7	178 mm			
8	203 mm			
9	229 mm	266 mm	D2	pass
10	254 mm			
11	279 mm			
Glove circumference – Mercedes (EN 420+A1 Art. 5.1.1) - for hand size	minimum hand circumference	hand circumference		
6	152 mm			
7	178 mm			
8	203 mm			
9	229 mm	274 mm	D2	pass
10	254 mm	288 mm	D2	pass
11	279 mm			
Glove circumference – Crystal (EN 420+A1 Art. 5.1.1) - for hand size	minimum hand circumference	hand circumference		
6	152 mm			
7	178 mm			
8	203 mm			
9	229 mm	268 mm	D2	pass
10	254 mm	270 mm	D4	pass
11	279 mm			



Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment ¹⁾	Value required	Results obtained ²⁾	Number of document ³⁾	Assessment
Glove circumference – Meadow (EN 420+A1 Art. 5.1.1) - for hand size	minimum hand circumference	hand circumference		
6	152 mm			
7	178 mm			
8	203 mm			
9	229 mm	276 mm	D2	pass
10	254 mm	280 mm	D2	pass
11	279 mm			
Glove length - Chelsea (EN 659+A1 Art. 3.2) - for hand size	minimum length	length		
6	260 mm			
7	270 mm			
8	280 mm			
9	290 mm	340 mm	D4	pass
10	305 mm	378 mm	D2	pass
11	315 mm			
Glove length – Diamond (EN 659+A1 Art. 3.2) - for hand size	minimum length	length		
6	260 mm			
7	270 mm			
8	280 mm			
9	290 mm	295 mm	D4	pass
10	305 mm	314 mm	D2	pass
11	315 mm			
Glove length - Karla (EN 659+A1 Art. 3.2) - for hand size	minimum length	length		
6	260 mm			
7	270 mm			
8	280 mm			
9	290 mm	309 mm	D2	pass
10	305 mm			
11	315 mm			
Glove length - Mercedes (EN 659+A1 Art. 3.2) - for hand size	minimum length	length		
6	260 mm			
7	270 mm			
8	280 mm			
9	290 mm	395 mm	D2	pass
10	305 mm	380 mm	D2	pass
11	315 mm			



Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment ¹⁾	Value required	Results obtained ²⁾	Number of document ³⁾	Assessment
Glove length - Crystal (EN 659+A1 Art. 3.2) - for hand size	minimum length	length		
6	260 mm			
7	270 mm			
8	280 mm			
9	290 mm	305 mm	D2	pass
10	305 mm	320 mm	D2	pass
11	315 mm			
Glove length - Meadow (EN 659+A1 Art. 3.2) - for hand size	minimum length	length		
6	260 mm			
7	270 mm			
8	280 mm			
9	290 mm	322 mm	D2	pass
10	305 mm	322 mm	D2	pass
11	315 mm			
Dexterity (EN 420+A1 Art. 5.2) - for style class	the smallest diameter of the roll for which the test conditions are met	diameter of the roll		
1	11.0 mm			
2	9.5 mm			
3	8.0 mm			
4	6.5 mm	6.5 mm	D4	pass
5	5.0 mm			
Water vapour absorption (EN 420+A1 Art. 5.3)	gloves have to be designed so as to be limited of sweat effect	sweat effect limited by used lining material (textile absorptive lining and innerlining)	D2	pass
Abrasion resistance - palm(3.3) for style class	minimum number of cycles at which the material must not be worn through	number of cycles		
3	2000 cycles			
4	8000 cycles	8000 cycles	D9	pass
Cut resistance – palm, for style class (3.4)	min. index	index		
2	2.5			
3	5.0			
4	10.0			
5	20.0	27.5	D9	pass
Cut resistance – back, for style class (3.4)	min. index	index		
2	2.5			
3	5.0			
4	10.0			
5	20.0	33.1	D9	pass



Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment ¹⁾	Value required	Results obtained ²⁾	Number of document ³⁾	Assessment
Tear resistance – palm, for style class (3.5) 3 4	minimum force	force		
	50 N			
	75 N	93.7 N	D9	pass
Puncture resistance – palm, for style class (3.6) 3 4	minimum force	force		
	100 N	110 N	D9	pass
	150 N			
Burning behaviour (3.7) - after flame time for style class 4				
	max. 2 s	0 s	D3	pass
Burning behaviour (3.7) - afterglow time for style class 4	maximum time			
	max. 5 s	0 s	D3	pass
Burning behaviour (3.7)	if the material melts, it must not drip off and the seam must not open for a period of 15 s	the seams did not open, the material does not burn and does not drip off	D3	pass
Convective heat resistance (3.8) – palm HTI ₂₄ for style class 3 4	index HTI ₂₄	HTI ₂₄		
	min. 13 s			
	min. 18 s	40.5 s	D7	pass
Convective heat resistance (3.8) – back HTI ₂₄ for style class 3 4	index HTI ₂₄	HTI ₂₄		
	min. 13 s			
	min. 18 s	66.2 s	D7	pass
Radiant heat resistance (3.9) - back - time t ₂₄ - average value - time t ₂₄ - minimum value				
	min. 20 s	26.5 s	D14	pass
	min. 18 s	26.2 s	D14	pass
Contact heat resistance for 250°C (3.10) - palm threshold time t ₂₄ after dry conditioning after wet conditioning				
	min. 10 s	35.9 s	D7	pass
	min. 10 s	27.4 s	D7	pass
Heat resistance of the lining material (3.11) - performance after test	the lining materials shall neither melt nor drip nor catch fire	they do not melt drip catch fire	D13	pass



Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment ¹⁾	Value required	Results obtained ²⁾	Number of document ³⁾	Assessment
Heat shrinkage (3.12) - length change Chelsea, Mercedes Diamond, Crystal Karla, Meadow	max. 5 %	0,7 % 0 % 0 %	D13	pass
Heat shrinkage (3.12) - width change Chelsea, Mercedes Diamond, Crystal Karla, Meadow	max. 5 %	0 % 0 % 0 %	D13	pass
Heat shrinkage (3.12) - performance after test Chelsea, Mercedes Diamond, Crystal Karla, Meadow	after the test and 25 flex cycles shall be gloves without damage	without damage without damage without damage	D13	pass
Seam breaking strength (3.14) - palm textile – back textile	min. 350 N	572 N	D5	pass
Time for the removal of gloves (3.15) - after dry conditioning Chelsea, Mercedes Diamond, Crystal Karla, Meadow	max. 3 s	2,0 s 1,5 s 2,0 s	D6	pass
Time for the removal of gloves (3.15) - after wet conditioning Chelsea, Mercedes Diamond, Crystal Karla, Meadow	max. 3 s	2,0 s 2,5 s 2,0 s	D6	pass
Whole glove integrity test (3.17)	no water marks on the innerglove after testing	no water marks on the innerglove after testing	D12	pass
Resistance to liquid chemical penetration (3.18) – palm, back (PU membrane)			D7	
30 hm. % H ₂ SO ₄	when tested accordingly, there shall be no penetration	no penetration		pass
40 hm. % NaOH		no penetration		pass
36 hm. % HCl		no penetration		pass
heptane		no penetration		pass
Marking (Art. 5, EN 420 Art. 7.2)	marking of each gloves: - dates according to EN 420+A1 Art. 7.2 - number of standard EN 659+A1	each gloves marked marked	D2	pass



Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment ¹⁾	Value required	Results obtained ²⁾	Number of document ³⁾	Assessment
Marking (Art. 5, EN 420 Art. 7.2)	- specific pictogram for firefighters	marked	D2	pass
Information supplied by the manufacturer (Art. 6, EN 420+A1 Art. 7.3)	information shall be in accordance with the applicable clause of EN 420+A1, EN 388, EN 659+A1	contains required data	D2	pass

Notes to Table VII:

- 1) Appropriate articles of the ČSN EN 659+A1 standard are given in the brackets (unless otherwise stated)
- 2) The test results are only levels (classes) of style rather than protection level. Classification is carried out by dashed line.
- 3) The documents placed in this column are the basis for assessment. Their identification see in Table VIII

3.7 Assessment of product conformity with technical specifications and basic requirements

The assessed product – Operating Gloves for firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038, specified in Item 1 hereof – complies with the requirements set by the following technical standards with regard to its design and submitted documentation:

ČSN EN 420:2004+A1:2010 (EN 420:2003+A1:2009),

ČSN EN 659:2004+A1:2008 (EN 659:2003+A1:2008)

Results of the evaluation of the personal protective equipment stated in Table No. 6 hereof prove the conformity of all indicators specifying general basic requirements of Regulation (EU) 2016/425, additional basic requirements common for more types of PPE and additional basic requirements for special risks applicable to the evaluated type of product.

4. Conclusion

Notified Body NB 1023 performed EU Type-Examination of the personal protective equipment

Operating Gloves for firefighters, types:

Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Technical specifications used by the manufacturer are in compliance with basic requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

The sample of the personal protective equipment was produced in compliance with the technical documentation of the manufacturer and can be fully safely used for its intended purpose.

The sample of the personal protective equipment meets all the provisions of the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

The Notified Body No. 1023 has decided to issue the EU Type Certificate.

**5. List of documents used for the preparation of the Evaluation Report**

List of documents used by Notified Body NB 1023 by EC type examination of product, is presented in the Table. VIII. Numbers of documents in second column correspond with numbers of documents published in the Table VII with assessment of product properties.

Table VIII: List of documents

Name of document	Marking
The application of company HOLIK International s.r.o., Zlín, dated 2018-06-18	-
Technical documentation of company HOLIK International s.r.o., Zlín for the Operating Gloves for firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038 submitted on 2018-06-18	D1
Check list / a list of basic health and safety requirements issued by HOLIK International s.r.o., Zlín on 2018-05-30	-
Document on receipt of samples (Sample Registration Book of the ITC's Centre 260)	-
EC Type Certificates No. 13 0535 T/NB and 13 0540, issued in Institut pro testování a certifikaci, a.s., Zlín	-
Final Reports ref. No. 723300934/02/2013 and 723300934/03/2013, issued in Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	-
Assessment Record No. 723301588/A, Notified Body NB 1023, Institut pro testování a certifikaci, a.s., Zlín	D2
Accredited Laboratory Test Report ref. No. 723300459/01, issued in testing accredited laboratory AZL1004, Institut pro testování a certifikaci, a.s., Zlín	D3
Accredited laboratory test report ref. No. 723300934/01, issued in testing accredited laboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín	D4
Accredited laboratory test report ref. No. 343300066/01, issued in testing accredited laboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín	D5
Accredited laboratory test report ref. No. 412601553/6, issued in testing accredited laboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D6
Accredited laboratory test report ref. No. 412601968/32, issued in testing accredited laboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D7
Accredited laboratory test report ref. No. 412602379/1, issued in testing accredited laboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D8
Accredited laboratory test report ref. No. 412602633/11, issued in testing accredited laboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D9
Accredited laboratory test report ref. No. 412602684/4, issued in testing accredited laboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D10
Accredited laboratory test report ref. No. 412602684/5, issued in testing accredited laboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D11
Accredited laboratory test report ref. No. 412602702/6, issued in testing accredited laboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D12
Accredited laboratory test report ref. No. 412602721/3, issued in testing accredited laboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D13
Test report No. 014/2013, issued in testing accredited laboratory AZL 1040, VÚBP Praha – ZL, Czech Republic	D14
Declaration about innocuousness for human health of materials used on the product, issued in company HOLIK International s.r.o., Zlín, Czech Republic on 2018-05-30	D15
Declaration about keeping of material and construct composition of products, issued in company HOLIK International s.r.o., Zlín, Czech Republic dated 2018-05-30	D16



Appendix to Evaluation Report Ref. No. 723301588/01/2018:

Drawing of the Product



Chelsea



Diamond



Karla



Mercedes



Crystal



Meadow