



**Authorized Body No. 224**  
**Institute for Testing and Certification, Inc., Zlín, Czech Republic**  
**Notified Body No. 1023 for the Directive 89/686/EEC on the PPE safety requirements**

# **EC Type-Examination Certificate**

## **No. 12 0630 T/NB**

issued in compliance with the Czech Government Order No. 21/2003 Coll., which transposes the Council Directive 89/686/EEC, 96/68/EEC, 93/95/EEC and 96/58/EEC concerning the PPE safety, for personal protective equipment of category II

**Protective gloves against mechanical risks**  
**Types: 07131, 07134, 07138, 07140**

Manufacturer:  
**INDUSTRIAL STARTER S. P. A.**  
**Via Lago d'Iseo 26, 36077 Altavilla Vicentina (Vicenza), Italy**

This Certificate confirms that above referenced personal protective equipment (PPE) fulfils the essential health and safety requirements as they are stated in the harmonized technical standards:  
**ČSN EN 420:2004+A1:2010 (EN 420:2003+A1:2009)**  
**ČSN EN 388:2004 (EN 388:2003)**

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 description, the results of the technical file examination as well as the test results including their evaluation are presented in the ITC's Final Report No. 723300833/03/2012, which is enclosed to this certificate.

*This Certificate is issued under following conditions:*

- 1. It applies only to the above referenced model of category II PPE submitted to test.*
- 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 model conform to the type approved by this Certificate.*
- 4. The applicant shall inform the Notified Body of all technological changes in manufacture of the approved models and as consequence of the technical advances he shall regularly keep himself informed of any standard changes as well as modification of testing methods conducted by the Notified Body, which shall approve these changes in necessary cases by the amendment of this Certificate.*
- 5. After fulfilling the relevant EU legislation requirements, the manufacturer shall affix to each PPE, of the above referenced model, the CE-marking according to this example:*



Issued in Zlín, 8<sup>th</sup> August 2012  
Valid until: 7<sup>th</sup> August 2017



**RNDr. Radomír Čevelík**  
Representative of the Notified Body No. 1023



INSTITUTE FOR TESTING AND CERTIFICATION  
T. BATI 299, 764 21 ZLÍN, CZECH REPUBLIC

## FINAL REPORT

Ref. No.: 723300833/03/2012

Applicant: **INDUSTRIAL STARTER S. P. A.**

Address: **Via Lago d'Iseo 26  
36077 Altavilla Vicentina (Vicenza)  
Italy**

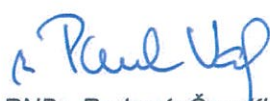
Product: **Protective gloves against mechanical risks  
Types: 07131, 07134, 07138, 07140**

Annex: **Product Illustration**

Conformity assessed by: **Dipl. Ing. Miroslava Dostálová** 

Final Report issued on: **2012-08-08**



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



## Introduction

Company INDUSTRIAL STARTER S. P. A., Altavilla Vicentina, Italy made an application No. 723300833 for the purpose of EC Type – Examination of protective gloves according to the Council Directive 89/686/EHS on the harmonization of the laws of Member States relating to personal protective equipment.

## 1. Product specification

Following sample was submitted to the assessment:

**Protective gloves against mechanical risks, Types: 07131, 07134, 07138, 07140**

The product is ranked among the personal protective equipment the fundamental purpose of which is protection of hands from injuries that may be sustained during accidents in the working spheres for which the gloves are intended. They guarantee the declared protection against mechanical risks. They serve in the environment of work with mechanical risks, e. g. cutting, abrasion and scratching and as a protection against pollution, meteorological influences.

There are five-fingers protective gloves with the short cuff, or without cuff. All types are completely made of leather. They have the same properties essential for assessment like models 7131, 7134, 7138, 7140, sooner assessed. The material composition of gloves is described in the table I.

Table I: Material composition of gloves

Part	type 7131	type 7134	type 7138	type 7140
Palm	cow grain leather	cow grain leather	cow grain leather	cow grain leather
Back	cow split leather	cow split leather	cow grain leather	cow grain leather
Cuff	-	cow split leather	cow split leather	-

The country of origin of the above product is Italy. The client is manufacturer of the namely gloves.

## 2. Technical documentation

The technical documentation submitted to the assessment is in conformity with technical characteristics of the samples supplied for the test and meets requirements of Annex No. 3 of Government's Order No. 21/2003, Collection of Laws.

The documentation contains the following parts:

- description of protective functions and efficiency of protection
- description of materials and their technical specifications
- information for use, storage, cleaning and maintenance
- description of marking and its meaning
- information about the manufacturer
- illustration of personal protective equipment
- principles of sizing and size marks



### 3. Assessment of conformity with fundamental the basic requirements

#### 3.1 The basic requirements for the product and their specification in normative documents

The basic requirements for personal protective equipment are given in the Council Directive 89/686/EEC on the harmonization of the laws of Member States relating to personal protective equipment. This directive was implemented into Czech law by the Government Order No 21/2003 as amended. The basic requirements for PPE are given in Annex 2. The procedure of conformity assessment is specified in §§ 3 and 4. The conformity with this Government Order means the conformity with the Directive and vice versa. The basic requirements for this category of products are given in the following harmonized standards, see table II:

Table II: *Relevant harmonized standards*

Standard	Name of standard
ČSN EN 420:2004 + A1:2010 (EN 420:2003 + A1:2009)	Protective gloves. General requirements and test methods
ČSN EN 388:2004 (EN 388:2003)	Protective gloves against mechanical risks

The EC Type Certificate No. 07 0422 T/NB was issued for the product specified in Art. 1 of this Final Report. Named certificate was issued by Institut pro testování a certifikaci a.s. Zlín – NB 1023 on 2007-07-31. The certificate was elaborated on the basis of the Final Report, reference No. 723300365/2007 dated 2007-07-31. The validity of certificate expired on 2012-07-31. With respect to this fact and to the new edition of ČSN EN 420+A1 above mentioned certificate will be cancelled and new certificate will be issued.

#### 3.2 Indicators specifying the basic requirements

The indicators comprise the following requirements:

General 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 Cr<sup>6+</sup> value - ČSN EN 420+A1, Article 4.3.3
- determination sizes - ČSN EN 420+A1, Art. 5.1
- determination of dexterity - ČSN EN 420+A1, Art. 5.2

Resistance to mechanical risks:

- determination of abrasion resistance - ČSN EN 388, Table 1, Art. 6.1
- determination of cut resistance - ČSN EN 388, Table 1, Art. 6.2
- determination of tear strength - ČSN EN 388, Table 1, Art. 6.3
- determination of puncture resistance - ČSN EN 388, Table 1, Art. 6.4

Marking, information supplied by the manufacturer:

- marking, classification - ČSN EN 420+A1, Art. 7, ČSN EN 388, Art. 7
- information supplied by the manufacturer - ČSN EN 420+A1, Art. 7.3, ČSN EN 388, Art. 8



### 3.3 Test methods

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

Table III: Test methods and standards used for testing

Standard	Name of standard
ČSN EN 420:2004 + A1:2010 - Art. 4.3.2 - Art. 6.1 - Art. 6.2	Protective gloves. General requirements and test methods - Determination of pH value - Hand and gloves measurement and dimensions - Test method for determining gloved finger dexterity
ČSN EN 388:2004 - Art. 6.1 - Art. 6.2 - Art. 6.3 - Art. 6.4	Protective gloves against mechanical risks - Abrasion resistance - Resistance to blade cutting - Tear strength - Puncture resistance
ČSN EN ISO 17075	Leather - Chemical tests - Determination of chromium(VI) content

### 3.4 Place and method of sampling

The samples were delivered by the client according to instructions of the certification body. One pair of the model was provided for the assessment.

### 3.5 Place and date of tests

Tests of the specified properties were conducted in the accredited laboratory AZL No. 1004 of Institut pro testování a certifikaci, a.s., (Institute for Testing and Certification, a.s.), Zlín, Czech Republic. The tests were completed in August 2012.

### 3.6 Test results

The test results are summarized in the tables IV, V, VI, VII.

Table IV: Results of assessment of product Protective gloves type 07131

Property essential for assessment	Value required	Results obtained Assessment
General requirements Glove design and construction - generally (EN 420+A1 Article 4.1)	- the protective glove shall be designed and manufactured so that in the foreseeable conditions of use for which it is intended, the user can perform the hazard related activity normally whilst enjoying appropriate protection at the highest possible level	met



Table VII: Results of assessment of product Protective gloves type 07140

Property essential for assessment	Value required	Results obtained Assessment	
General requirements Glove design and construction - generally (EN 420+A1 Article 4.1)	- the protective glove shall be designed and manufactured so that in the foreseeable conditions of use for which it is intended, the user can perform the hazard related activity normally whilst enjoying appropriate protection at the highest possible level	met	
	- when the glove construction includes seams, the material and strength of the seams shall be such that the overall performance of the glove is not significantly decreased	met	
Innocuousness Generally (ČSN 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	met	
	- glove materials shall not adversely affect the user's health and hygiene	met <sup>*)</sup>	
	- the manufacturer or his authorized representative shall name all the substances contained in the glove which are known to cause allergies or contact dermatitis	met	
pH value - textile (EN 420+A1 Art. 4.3.2) - Cow grain leather	3.5 up to 9.5	met 4.41	
Cr <sup>6+</sup> content (ČSN EN 420+A1 Art. 4.3.3) - Cow grain leather	not detectable < 3 mg/kg	met not detectable < 3 mg/kg	
Glove circumference for hand size (ČSN EN 420+A1 Art. 5.1.1)	minimum hand circumference [mm]	met	
	6	152	210 mm
	7	178	244 mm
	8	203	240 mm
	9	229	252 mm
	10 11	254 279	
Glove length for size number (ČSN EN 420+A1 Art. 5.1.2)	minimum length [mm]	met	
	6	220	222 mm
	7	230	240 mm
	8	240	247 mm
	9	250	253 mm
	10 11	260 270	



Table VII: Results of assessment of product Protective gloves type 07140

	Property essential for assessment	Value required	Results obtained Assessment
DESTREZZA	Finger grip for the style class (EN 420+A1 Art.5.2)	the smallest diameter of the roll for which the test conditions are met [mm]	met
	1	11.0	
	2	9.5	
	3	8.0	
	4	6.5	
	5	5.0	5.0 mm
RESISTENZA ALL'ABRASIONE	Abrasion resistance for style class (EN 388 Art. 6.1)	minimum number of cycles at which the material must not be worn through [c]	met
	1	100	
	2	500	
	3	2 000	
	4	8 000	8 000 c
RESISTENZA AL TAGLIO	Cut resistance for style class (EN 388 Art. 6.2)	min. index	met
	1	1.2	
	2	2.5	3.24
	3	5.0	
	4	10.0	
	5	20.0	
RESISTENZA ALLA LACERAZIONE	Tear resistance for style class (ČSN EN 388 Article 6.3)	minimum force [N]	met
	1	10	
	2	25	
	3	50	
	4	75	93 N
RESISTENZA ALLA PERFORAZIONE	Puncture resistance for style class (ČSN EN 388 Art. 6.4)	minimum force [N]	met
	1	20	
	2	60	
	3	100	
	4	150	178 N
	Marking (EN 420+A1 Article 7.2, EN 388 Art. 7)	each glove shall be marked - according to EN 420+A1 Article 7.2 - according to EN 388 Article 7 - specific pictogram for mechanical risks	met met met
	Information supplied by the manufacturer (ČSN EN 420+A1 Art. 7.3, ČSN EN 388 Art. 7)	information shall be in accordance with the applicable clause of EN 420+A1, EN 388	met

\*) see Declaration about innocuousness for human health issued by the producer  
Note: The rest results are only levels (classes) of style rather than protection level



### 3.6.1 General requirements - pH, grip, marking, instructions for use and maintenance, etc.

The submitted samples of the product assessed meet the general requirements specified in ČSN EN 420+A1 standards in points related thereto. Marking and instructions for use meet requirements set forth in ČSN EN 420+A1 and ČSN EN 388 standards in points related thereto.

The test results obtained were taken over from the Accredited Laboratory Test Reports ref. No. 723300833/01, 412601345/2 and from Final Report ref. No. 723300365/2007 of Institut pro testování a certifikaci, a. s., Zlín. Health hazard characteristics are given in the Declaration about innocuousness for human health of materials used on the product, issued in company INDUSTRIAL STARTER S. P. A., Altavilla Vicentina, Italy.

### 3.6.2 Resistance to mechanical risks

The submitted samples of the product assessed meet the requirements for resistance to mechanical risks specified in ČSN EN 388 standards in points related thereto. The test results obtained were taken over from the Final Report ref. No. 723300365/2007 of Institut pro testování a certifikaci, a. s., Zlín.

### 3.7 Product conformity assessment

The product assessed, protective gloves, category II, specified in point 1 of the Final Report meets the requirements specified by the technical standards ČSN EN 420:2004 + A1:2010 (EN 420:2003 + A1:2009) and ČSN EN 388:2004 (EN 388:2003) in term of design, properties and submitted documentation.

## 4. Conclusion

- The Notified Body No. 1023 has carried out EC Type Examination of the product, specified in point 1 of the Final Report.
- The product has been assessed as compliant with the requirements of the Czech Government Order No 21/2003 (implementing the European Council Directive No 89/686/EEC amended by directives No 93/68/EEC, 93/95/EHS, and 96/58/EHS) specified in the harmonized standards listed in Article 4.1 of this report.
- The product has been manufactured in compliance with the technical documentation delivered by the manufacturer and can be safely used for determined purpose.
- The Notified Body No. 1023 has decided to issue the EC Type Certificate.
- The manufacturer must take all measures necessary in order that the manufacturing process shall ensure compliance of the manufactured products with the delivered technical documentation and with the requirements of the PPE Directive that apply to them.
- After fulfilling all obligations specified in the PPE Directive, the manufacturer shall issue EC Declaration of Conformity. Fulfilling these obligation, the manufacturer is allowed to affix the CE mark on each product (and/or on its packaging) of the certified type.
- The language version of user instructions, labeling and warnings are subject to national legislative provisions valid in the product destination
- The graphical shape of the CE marking and rules for its using are specified in the Regulation (EC) No. 765/2008 (chapter IV and Annex II).



**5. List of documents used to elaborate the Final Report**

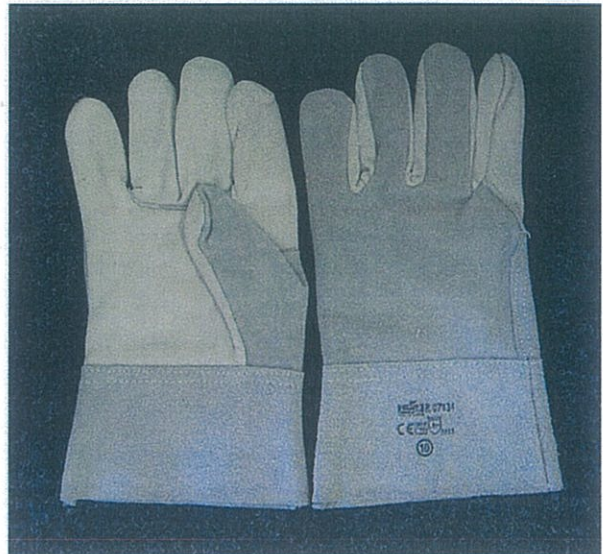
- Council Directive No. 89/686/EHS dated 1989-12-21
- Government Order No. 21/2003, Collection of Laws
- Decision on ITC Authorization No. 34/2001 of 2001-06-18
- Application for product assessment No. 723300833
- ČSN EN 420:2004 + A1:2010 (EN 420:2003 + A1:2009)
- ČSN EN 388:2004 (EN 388:2003)
- Document on receipt of samples (Sample Registration Book of the ITC's Centre 260)
- Technical documentation: description of the product, instructions for use, picture of the product, description of the control and test facilities to be used in the manufacturer's plant, etc.
- EC Type Certificate No. 07 0422 T/NB, issued in Institut pro testování a certifikaci, a.s., Zlín
- Accredited Laboratory Test Reports ref. No. 723300833/01, 412601345/2, issued in testing accredited laboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic
- Final Report ref. No. 723300365/2007, Institut pro testování a certifikaci, a. s., Zlín
- Declaration about innocuousness for human health of materials used on the product, issued in company INDUSTRIAL STARTER S. P. A., Altavilla Vicentina, Italy, dated 2012-04-18
- Declaration about keeping of original material and construct composition of product for the gloves, issued in company INDUSTRIAL STARTER S. P. A., Altavilla Vicentina, Italy, dated 2012-07-30



Product Illustration



Type 07131



Type 07134



Type 7138



Type 7140

**CODICE 7140**