

INSTRUCTIUNI DE INTRETINERE SI UTILIZARE USER INSTRUCTION GONDOZÁSI ÉS HASZNÁLATI UTASÍTÁSOK



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EN

INSTRUCTIONS FOR USE
Protective gloves for welders, Type A, Model 3C50

Before use, it is recommended to assess the risks at the workplace and check if the PPE is suitable for them. The manufacturer assumes no responsibility for use in conditions other than those specified.

ITEM CODE: 3C50

PROTECTION CATEGORY: II

DESCRIPTION: protective Welding Gloves with five fingers made of cow split leather in yellow colour, with extra reinforcement on the palm, thumb and little finger are cut together with the palm and the back of the glove is in one piece. The glove has fully cotton lining inside, in the palm area and denim at the cuff area; gloves are stitched with Kevlar thread, and may be used against mechanical risks and thermal risk (heat & fire). Total length is about 350 mm. Available sizes: 10, 11.

FIELD OF USE: protective gloves used for electric arc welding and manual cutting of metals, which protect the hands and wrist against small projections of molten metal, short-term exposure to a limited flame, convective heat, contact heat, UV radiation emitted by the arc, which ensure minimum resistance to 100 V d.c. during arc welding, as well as protection against mechanical aggressions (abrasion, cutting, snagging and perforation) when increased dexterity is not required, when handling dry parts

TECHNICAL DATA: the gloves are designed in such a way as to comply with the provisions of Regulation (EU) 2016/425 and the essential safety and health requirements corresponding to the intended field of use. They are made of natural leather. The materials used contain chromium salts in limited quantities, specified in the respected standards.

The product was subjected to the "EU type examination" procedure (module B) provided by art. 19 of Regulation (EU) 2016/425 for PPE of category II and described in annex V, at the Certification Body notified by the European Commission (identification no. 2475) Euroinspekt Eurotextil d.o.o., Ivana Matetica Ronjgova, 10000 Zagreb, Croatia, which issued the EU Type Examination Certificate.

The performance of the product is in accordance with the specifications of the standards:

- EN 12477: 2001/A1:2005 - marking symbols **Type A**
- EN 388:2016+A1:2018 - performance levels/classes **4 1 4 2 X**
- EN 407:2020- performance levels/classes **413X4X**
- EN ISO 21420:2020 all requirements, dexterity **level 2**

The results of the mechanical tests in accordance with EN 388: 2016+A1:2018

Mechanical data tested	Result	Mechanical properties	Level 1	Level 2	Level 3	Level 4	Level 5
Abrasion resistance	Level 4	Abrasion (Cycles)	100	500	2000	8000	-
Cut resistance	Level 1	Cutting (index)	1.2	2.5	5.0	10.0	20.0
Tear resistance	Level 4	Tearing (Newton)	10	25	50	75	-
Puncture resistance	Level 2	Perforation (Newton)	20	60	100	150	-
TDM cut resistance	Level X	Cutting force (Newton)	A>2; B>5; C>10; D>15; E>22; F>30				

Characteristic, unit of measure	Reference standard requirement	Level 1	Level 2	Level 3	Level 4	Level 5	Method reference standard
Fire behavior	Level: 4 5.1 / EN 407+ 3.3/EN 12477	- the material does not drip. - the lower layer of the glove shows no signs of melting, - the seams withstand a flame exposure time of 15 s on the test surface.					6.3 / EN 407 (EN ISO 6941 modified:)
Duration of flame persistence, s		≤ 20	≤ 10	≤ 3	≤ 2	-	
The duration of residual incandescence, s	Level: 1 5.2 / EN 407+ 3.3/EN 12477	100°C	250°C	350°C	500°C		6.4 / EN 407: (EN 702).
Resistance to contact heat - threshold time s 15s for contact temperature specific to the declared performance level, in 0C	Level: 3 5.3 / EN 407+ 3.3/EN 12477	≥ 4	≥ 7	≥ 10	≥ 18		6.5 / EN 407 (EN 367):
Resistance to convective heat - HTI heat transmission index	Not declared 5.4 / EN 407	≥ 7	≥ 20	≥ 50	≥ 95		6.6 / EN 407: (EN ISO 6942:2002, method B)



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Radiant heat resistance - Heat transfer index t24, in s	Level: 4 5.5 / EN 407+ 3.3/EN 12477	≥ 10	≥ 15	≥ 25	≥ 35		6.7 / EN 407: (EN 348)
Resistance to small projections of liquid metal, number of drops	Not declared 5.6 / EN 407	≥ 30	≥ 60	≥ 120	≥ 200		6.8 / EN 407: (EN 373, with modifications)
Dexterity (the smallest diameter of the rod that meets the test conditions, mm)	Level: 2 EN 420 + 3.3/EN 12477	11	9,5	8	6,5	5	EN 420

EN 388:2016+A1:2018

EN 12477: 2001/A1:2005- tip A
EN 407:2020



4142X



413X4X



The gloves provide protection against mechanical risks limited only to the palm area.

MARKING: manufacturer identification data, model number, European conformity marking, size, manufacturing batch code (unique number or at least year of manufacture), icons with performance levels, warning icon on the instructions.

PACKAGING: packed in a plastic bag, 12 pairs each.

NOTE: no tests were conducted in an environment different from the standardized ones. The glove is not resistant to water penetration. The gloves have a high resistance to smacking and it is not recommended to wear them when there is a risk of getting caught in the mechanisms of a moving machine.

The materials used contain chromium oxides; although the content in Cr VI is within the limits imposed by the harmonized standard, the gloves can cause irritation on sensitive hands.

ATTENTION: the gloves are made of two or more layers, and the global classification does not necessarily reflect the performance of the outer layer. During the specific tests, the level of performance in fire behavior was equal to 1/2 and therefore the gloves will not be used in workplaces where they can come into direct contact with the flame. The gloves have been subjected to the test of resistance to large projections of molten metal with molten cast iron/aluminum and ensure resistance molten metal.

The performance levels against heat and/or fire or against mechanical risks only apply to the entire glove, and the global classification does not necessarily reflect the performance of the outer layer.

NOTE: type A gloves are recommended for welding processes that do not require great dexterity (other than TIG). Currently, there is no standardized test method to detect U.V. penetration through the materials used in gloves, but they are designed using methods that do not allow U.V. penetration. These gloves can be used for electric welding, but do not provide protection against electric shock caused by faulty equipment or live work. The electrical resistance of the gloves is reduced if they are wet, dirty or soaked with palm sweat.

CLEANING AND MAINTENANCE: cleaning will only be done by brushing or by wiping with a damp cloth and wiping with a dry cloth and brushing. Washing is not recommended. It is chemically cleaned with perchlorethylene a maximum of 8 times. If the cleaning is applied by the user, it will be carried out only in special installations by trained personnel, respecting the labor protection rules.

STORAGE: they will be stored in clean rooms, at temperatures between 10-25 °C and relative air humidity of about 65%, away from the action of sunlight and heat sources (the distance from heat sources should be minimum 1 m.).

OBSOLESCENCE: the glove is removed from use, even if it has not been used, when the execution material becomes rigid.

WARRANTY IN STORAGE: the products are guaranteed for a period of 12 months, provided the instructions are followed.

USE LIMITS: the gloves will be removed from use when, upon examination, it is found that they have thinned, damaged, worn, ripped, punctured, burnt portions.

The declaration of conformity can be downloaded at: <https://renania.ro/>

Any other information can be obtained at:

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