Article 2142 - Chemical-Protection Gloves PVC GRÜN - PPE category III: high risk - size(s): M/8-XL/10

Manufacturer’s Information

pursuant to PPE Regulation (EU) 2016/425, Annex II, Section 1.4. (Published in the Official Journal of the European Union)

Please read carefully before using! You are required to enclose this information leaflet when passing on the personal protective equipment, or to present it personally to the recipient. You may therefore reproduce this leaflet at your own discretion.

Declaration of Conformity

CE These gloves are classified as personal protective equipment (PPE). The CE mark confirms that the product satisfies the applicable requirements of Regulation (EU) 2016/425.

A. Markings on the gloves:

Trademark, model no., size, CE icon, testing institute identification number, pictograms, i-mark, factory icon with month/year of manufacture

teXXor	Brand label of manufacturer
2142	Article no. of the manufacturer
10	Size (example)
	Pictograms with the corresponding numbers of the relevant European PPE standards (example, detailed pictogram see previous pages).
CE	The CE marking confirms compliance with the requirements of European Regulation 2016/425.
0598	Four-digit number of the testing institute, which monitors the quality assurance of the manufacturer. This will be attached to the CE mark on the product.
	i mark: Reference to the manufacturer’s information.
	Date of manufacture month/year: 00/0000

B. Explanation and numbers of the standards whose requirements the gloves satisfy:

Standards retrieved from: the Official Journal of the European Union. Available from DIN Media GmbH, D-10787 Berlin. www.dinmedia.de

EN ISO 21420:2020 - General requirements and test methods for gloves

EN 388:2016+A1:2018 - Protective gloves against mechanical risks:

Protective gloves against mechanical risks must achieve at least Level 1 for at least one of the properties (abrasion, cut, tear and puncture resistance) or at least Level A of the TDM cut resistance test according to EN ISO 13997:1999.

Abrasion resistance:	The number of abrasion cycles required to rub through the test specimen.
Cut resistance (Coupe-Test):	The number of test cycles in which the test specimen is cut through with constant force and repeated contact.
Tear resistance:	The force needed to continue tearing the cut sample.
Puncture resistance:	The force needed to puncture the sample using a standardized test stylus.
Cut resistance (TDM):	The minimum force that is necessary to cut through the test specimen with a single contact.

EN 388:2016+A1:2018

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Test criteria	Rating	Article 2142
A = Abrasion resistance	0 - 4	4
B = Cut resistance (Coupe test)	0 - 5	1
C = Tear resistance	0 - 4	2
D = Puncture resistance	0 - 4	1
E = Cut resistance (TDM) according to EN ISO 13997:1999	A - F	X
F = Impact protection test according to EN 13594:2015	P	not assesed

Test	1	2	3	4	5
A = Abrasion resistance (number of abrasion cycles)	100	500	2000	8000	-
B = Cut resistance (index) Coupe test	1,2	2,5	5,0	10,0	20,0
C = Tear resistance (N)	10	25	50	75	-
D = Puncture resistance (N)	20	60	100	150	-

The higher the test number, the better the test performance. 0: indicates that the glove falls below minimum performance level for the given individual hazard. X: indicates that the glove has not been tested or the test method appears not to be suitable for the glove design or material. P means ‘passed’.

Test	A	B	C	D	E	F
E = Cut resistance according to EN ISO 13997:1999 (N)	2	5	10	15	22	30
Article 2142						

EN 13594:2015 - Impact protection :

Every area specified as providing protection against impact must be tested. The test method (dimensions of the test sample) does not permit impact testing of the finger protection. Gloves to protect against mechanical risks may be designed and manufactured in such a way that they offer specific impact damping (e.g. impact protection on the knuckles. the back of the hand, the palms). These gloves must satisfy the requirements of Level 1 according to EN 13594:2015 .
The results of the Coupe test must only be taken as indications if blunting occurs during the cut resistance test (B), while the TDM cut resistance test (E) provides reference results in regard to performance.

WARNING:

The overall classification for gloves with two or more layers does not necessarily indicate the performance of the outermost layer.
Gloves with mechanical resistance that achieve and demonstrate Level 1 tear resistance (C) or higher must not be worn if there is a risk of them catching when operating machines with moving parts.
Tests are taken from the palm area of the glove.

Protective gloves against dangerous chemicals and micro-organisms:

EN ISO 374-1:2016+A1:2018, Part 1:	**Terminology and performance requirements for chemical risks**
EN ISO 374-2:2019, Part 2:	**Determination of resistance to penetration**
EN ISO 374-4:2019, Part 4:	**Determination of resistance to degradation by chemicals**
EN ISO 374-5:2016, Part 5:	**Terminology and performance requirements for risks by micro-organisms**
EN 16523-1:2015+A1:2018, Part 1:	**Determination of material resistance to permeation by chemicals – Part 1 Permeation by liquid chemicals under conditions of continuous contact**

Definition of terms:

Degradation: An adverse change in one or more properties of a material used in a protective glove due to contact with a chemical. NB: Examples of degradation include flaking, swelling, disintegration, embrittlement, discolouration, a change in appearance, hardening or softening etc.

Penetration: Movement of a chemical through materials, seams, pinholes or other imperfections in the protective glove material at a non-molecular level.

Permeation: Movement process of a chemical through the material of the protective glove material at a molecular level. NB: Permeation includes the following: Absorption of molecules of the chemical into the contacted (outside) surface of a material; Diffusion of the absorbed molecules in the material; Desorption of the molecules from the opposite (inside) surface of the material.

Terminology and performance requirements for micro-organisms risks EN ISO 374-5:2016:

Article	Result article 2142
Resistance to Bacteria & Fungi	passed
Resistance to Virus	passed

Resistance to penetration EN ISO 374-2:2019 - Acceptable quality limit (AQL):

Performance level	Acceptable quality limit (AQL)	Inspection level	Article 2142
3	< 0,65	G1	AQL = 0,65
2	< 1,50	G1	
2	< 4,00	G1	

Resistance to degradation EN ISO 374-4:2019:

Code letter	Test chemical	CAS-RN	Class	Article 2142
J	n-Heptan	142-82-5	Aliphatic hydrocarbons	no change, 3.9%
K	Sodium hydroxide 40%	1310-73-2	Inorganic alkali	no change, 13.5%
L	Sulphuric acid 96%	7664-93-9	Inorganic acid, oxidizing	shrinkage and discoloration, 62.4%
M	Nitric acid 65%	7697-37-2	Inorganic acid, oxidizing	swelling, 34.3%
P	Hydrogen peroxide 30%	7722-84-1	Peroxide	no change, -1.7%
S	Hydrofluoric acid 40%	7664-39-3	Inorganic acid	not tested,
T	Formaldehyde 37%	50-00-0	Aldehyde	no change, 1.4%

Material resistance to permeation by chemicals EN ISO 374-1:2016+A1:2018:

Breakthrough time (min.)	Performance level for permeation
> 10	1
> 30	2
> 60	3
> 120	4
> 240	5
> 480	6

Protective gloves against chemicals are classified in three types, based on their permeation performance:

- Type A: The permeation performance must satisfy at least Level 2 for no less than six test chemicals according to the following table.
- Type B: The permeation performance must satisfy at least Level 2 for no less than three test chemicals according to the following table.
- Type C: The permeation performance must satisfy at least Level 1 for no less than one test chemical according to the following table.

List of test chemicals:

Code letter	Test chemical	CAS-RN	Class	Breakthrough time (min.) art. 2142	Level art. 2142
A	Methanol	67-56-1	Primary alcohol		
B	Acetone	67-64-1	Ketone		
C	Acetonitril	75-05-8	Nitrile		
D	Dichloromethane	75-09-2	Chlorinated hydrocarbon		
E	Carbon sulphide	75-15-0	Sulphur-containing organic compound		
F	Toluene	108-88-3	Aromatic hydrocarbon		
G	Diethylamine	109-89-7	Amine		
H	Tetrahydrofuran	109-99-9	Heterocyclic and ether compounds		
I	Ethyl acetate	141-78-6	Ester		
J	n-heptane	142-82-5	Aliphatic hydrocarbons	> 30	2
K	Sodium hydroxide 40%	1310-73-2	Inorganic alkali	> 480	6
L	Sulphuric acid 96%	7664-93-9	Inorganic acid, oxidizing	> 60	3
M	Nitric acid 65%	7697-37-2	Inorganic acid, oxidizing	> 60	3
N	Acetic acid 99%	64-19-7	Organic acid		
O	Ammonia water 25%	1336-21-6	Organic alkali		
P	Hydrogen peroxide 30%	7722-84-1	Peroxide	> 480	6
S	Hydrofluoric acid 40%	7664-39-3	Inorganic acid	> 240	5
T	Formaldehyde 37%	50-00-0	Aldehyde	> 480	6

Marking of the glove:

Type A:

The seven tested chemicals must be identified by their code letter, positioned below the pictogram as shown below. If chemicals not included in the list are also tested, information on the performance levels must be made available in the user instructions.

EN ISO 374-1:2016+A1:2018/Type A

JKLMPST

WARNINGS:

This information does not reflect the actual duration of protection in the workplace and the differentiation between mixtures and pure chemicals.

The chemicals resistance has been assessed under laboratory conditions from samples taken from the palm only (except in cases where the glove is equal to or over 400mm – where the cuff is tested also) and relates only to the chemical tested. It can be different if the chemical is used in a mixture.

It is recommended to check that the gloves are suitable for the intended use because the conditions at the workplace may differ from the type test depending on temperature, abrasion and degradation.

When used, protective gloves may provide less resistance to the dangerous chemical due to changes in physical properties. Movements, snagging, rubbing, degradation caused by the chemical contact etc. may reduce the actual use time significantly. For corrosive chemicals, degradation can be the most important factor to consider in selection of chemical resistant gloves.

Before usage, inspect the gloves for any defect or imperfections.

The manufacturer must provide decontamination instructions for reusable gloves. Gloves are for single-use only if they do not include decontamination instructions, and the following warning must be added: To be used only once.

Protection against micro-organisms (bacteria, fungi and viruses) according to EN ISO 374-5:2016

Marking of gloves that protect against bacteria, fungi and viruses

EN ISO 374-5:2016

VIRUS

The bacteriophage penetration test according to ISO 16604:2004 (method B) must be performed and passed if a protection against viruses be stated.

WARNINGS:

Resistance to penetration was assessed under laboratory conditions and refers exclusively to the tested samples.

C. Purpose, applications and risk assessment:

Applicable for general work with high risks as well as when handling liquids and chemicals within the specified classification, paints, varnishes, oils, petrol, e.g. in the craft trade, construction sector, chemical industry, pharmaceutical industry, agricultural sector, facility management

These gloves satisfy the requirements of the quoted standards. Please note that the actual conditions of use cannot be simulated and that the decision on the glove's suitability for its intended purpose therefore lies exclusively with the user. The manufacturer is not responsible for improper use. Hence, an assessment of the residual risk should be performed before use in order to determine whether this glove is suitable for its intended purpose.

Kindly note the printed pictograms and performance levels.

Precautionary measures before use:

When donning the glove, please ensure that both glove and hand are clean, glove size is right, and it is properly fit on the contours and crotches of fingers. In case of contamination / perspiration, take off the glove, allow it to dry before wearing again and/or discard depending on the condition of glove.

When an indication of hand hygiene precedes a contact that also requires glove usage, hand rubbing or hand washing should be performed before donning glove.

Precautionary measures during use:

- Only use gloves with a printed chemical pictogram when handling chemicals.
- Make certain that the selected glove is resistant to the chemicals being used.
- Do not use these gloves to protect against serrated edges or blades, etc.
- If gloves for heat application are requested, make certain that they satisfy the requirements of EN 407:2020 and that they were tested as specified therein.
- Do not use the gloves close to moving machine parts.
- Check the gloves carefully before use to make certain there are no defects or imperfections.
- Gloves meeting the requirement for resistance to puncture in accordance with EN388:2016+A1:2018 may not be suitable for protection against sharply pointed objects such as hypodermic needles.
- Discard damaged, worn, dirty or soiled gloves, irrespective of the substance (including on the inside), as they may lead to skin irritation and rashes. Consult a doctor or dermatologist should such cases arise.
- For further information regarding the permissible user exposure, e.g. temperature, duration please contact the manufacturer.

Doffing instruction:

Clean off the outside of the gloves at least daily and prior to removing them.
Loosen the gloves on both hands. Hold hands down to prevent the material, product, or contaminated water from dripping onto your skin or clothing.
Keep the gloves down and remove the first glove only to the fingers – the cuff will remain over your palm
Grab the second glove with the first glove and remove it. The first glove should slip off.
Handle gloves by the inside only – the area not contaminated. Avoid touching the outside of the glove.
Wash your hands with soap and water – do not use hand sanitizers.

D. Cleaning, care and disinfecting:

Care instructions:

Do not wash and bleach the gloves. Drying in tumbler is not possible. Do not iron. Professional dry and wet cleaning is not allowed.

Both new and used gloves must be checked carefully for any damage before they are worn. Never store dirty gloves if they are intended for reuse. Users are advised to carefully remove the gloves on the right and then the left if it is not possible to remove the soiling or if doing so would present a danger. Here, use the hand wearing the glove in such a way that the other glove can be removed without coming into contact with the soiling.

E. Storage and ageing:

Store in a cool, dry place, away from direct sunlight and sources of ignition, preferably in the original packaging. Do not store in a folded state or under heavy loads. The gloves are subject to material-related ageing due to wear and tear, intensity of use, environmental influences such as light, moisture and temperature, and care, which is why their service life cannot be specified exactly. The protective effect may diminish even without visible damage. The date of manufacture and issue must be taken into account, as must regular visual inspections. Only use the gloves for their intended purpose. Before each use, the gloves must be checked for damage or material changes (e.g. holes, colour changes, a brittle and/or cracked coating). Damaged gloves must be disposed of and must not be used under any circumstances. The employer must ensure that they are replaced in good time.

F. Disposal:

Used gloves may be contaminated with environmentally harmful or hazardous substances. Dispose of the gloves in accordance with applicable local laws.

G. Material composition:

Polyvinylchloride (PVC)
Lining: 100% cotton knitted interlock

H. Packaging:

This item will be delivered in a uniform cardboard box with a content of: 60 pair
The smallest sales unit is: 12 pair

I. Health risks:

If allergic reactions occur, please consult a doctor or dermatologist.

Notified body responsible for the EU Type Examination:

SATRA Technology Europe Ltd.
Bracetown Business Park
Clonee, Dublin D15 YN2P
Ireland
Notified Body No.: 2777

in accordance with EU PPE Regulation 2016/425.

Notified body that monitors the manufacturer's quality assurance based on the production process (module D, in accordance with Annex VIII of PPE regulation (EU) 2016/425):

SGS Fimko Oy
P.O. Box 30 (Särkiniementie 3)
00211 Helsinki
Finland
Notified Body number: 0598

Manufacturer's name and address:

BIG Arbeitsschutz GmbH, Bundesstraße 17, 21244 Buchholz/Nordheide, Germany

For the full Declaration of Conformity and additional technical information, please visit:

www.big-arbeitsschutz.de/ info@big-arbeitsschutz.de

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