



STC345E - Rev 1- 21.03.06

CERTIFICATION CATEGORY III

CE 0334

TOPCHEM 345

CE-Type Examination Certificate

0072/014/162/02/06/0016

issued by the approved body nr. 0072

I.F.T.H. – Av. Guy de Collongue - F-69134 ECULLY CEDEX

Certificate of conformity of the Quality Assurance System

issued by the approved body nr. 0334

ASQUAL - 14, rue des Reculettes - F - 75013 PARIS

**This glove conforms to the provisions of Directive 89/686/EEC
for protection against chemicals, micro-organisms, mechanical risks, and
contact heat, within the limit of the recommendations hereafter.**

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MAPA®
PROFESSIONNEL

TOPCHEM 345

DESCRIPTION AND GENERAL PROPERTIES

Liquidproof glove made of **black PVA (polyvinylalcohol)**
over **neoprene (polychloroprene) rubber**.

Internal cotton liner.

Natural latex rubber layer between the liner and the neoprene layer.

Curved fingers and contoured palm.

Smooth external surface.

Guaranteed **without silicone**.

Thickness (in wrist area) : **1,5 mm** (indicative value)

Length (for all sizes) : **37 cm** (nominal value)

Sizes available : 7
8
9
10

Standard packaging :
each pair in box

"CE"- TYPE EXAMINATION RESULTS



PROTECTION AGAINST CHEMICALS

According to EN 374 standard.
Liquidproof glove.

A B C D
E F G H I
J K L

Permeation data : see the
enclosed chemical resistance
chart.



PROTECTION AGAINST MICRO-ORGANISMS

According to EN 374 standard.

Acceptable Quality Level (AQL): 1.5%



PROTECTION AGAINST MECHANICAL RISKS

Levels of performance according
to EN 388 standard.

3 1 4 1

| | | |

| | | ↳ puncture resistance (0 to 4)

| | ↳ tear resistance (0 to 4)

| ↳ blade cut resistance (0 to 5)

↳ abrasion resistance (0 to 4)



PROTECTION AGAINST HEAT

Levels of performance according
to EN 407 Standard.

Only the mentioned test is relevant to
the usage of the glove.

x 1 x x x x

↳ **contact heat (0 à 4)**

Thanks to its internal liner, this glove can be
used for handling hot parts up to 100°C.

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SPECIFIC ADVANTAGES

- **Superior chemical resistance against most of the solvents such as petroleum, aromatic and chlorinated solvents, ketones, esters, ethers and mixtures of solvents.**
- Excellent comfort for long duration jobs thanks to the high-quality cotton lining.
- High mechanical resistance and longer working life thanks to the textile liner.
- Product manufactured in a MAPA factory which is ISO 9001 certified.

MAIN FIELDS OF USE

- Metal degreasing and stripping
- Manufacturing paints and varnishes
- Metal surface preparation (solvents)
- Printing industry
- Resin and adhesive manufacturing.
- Handling and transporting chemicals
- Hazardous chemical emergencies
- Site decontamination.

INSTRUCTIONS FOR USE

For enhanced safety and service life of the gloves :

- Store the gloves in their original packaging protected from humidity and heat.
- It is recommended to check that the gloves are suitable for the intended use, because the conditions of use at workplace may differ from the "CE"-type tests.
- Persons sensitised to natural latex, dithiocarbamates and thiazoles should not use these gloves.
- It is not recommended to use these gloves next to moving machinery.
- Inspect the gloves for any defect before use.
- Put the gloves on dry, clean hands.
- Do not use the gloves in contact with a chemical for a duration in excess of the measured BBT breakthrough time. Refer to the chemical resistance chart hereafter or contact the Technical Customer Service-MAPA PROFESSIONNEL in order to know this breakthrough time. Use 2 pairs alternatively when in long duration contact with a solvent.
- Turn the cuff end back in order to prevent a hazardous chemical from dripping onto the arm.
- Before taking off the gloves, clean them as appropriate :
 - in use with paints, pigments and inks : wipe with a clean cloth dampened with a suitable solvent, and rub over with a dry cloth
 - in use with a solvent (diluent, etc...) : rub over with a dry cloth

Caution : improper use of the gloves or submitting them to any cleaning or laundering process which is not specifically recommended can alter their performance levels. Do not machine wash.

- Ensure the inside of the gloves is dry before reusing them.
- Inspect the gloves for cracks or snags before reusing them.

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CHEMICAL RESISTANCE CHART

This glove is designed for protection against numerous chemicals such as esters, ethers, cetonic, petroleum, aromatic and chlorinated solvents.

Caution : long duration contact with water-based chemicals may degrade the external coating of the glove.

In order to ensure whether this glove is suitable for a given chemical, refer to the table hereafter or enquire to Mapa Professionnel's Technical Customer Service.

CHEMICAL	CAS Nr.	Chemical Resistance Index	Degradation Index (1 to 4)	Permeation (EN 374)	
				Breakthrough time (minutes)	Permeation Index (0 to 6)
Acetone	B 67-64-1	++	NT	308	5
Acetonitrile	C 75-05-8	++	NT	> 480*	6
Ammonia (gas)	7664-41-7	+	NT	> 90	3
Carbon disulphide	E 75-15-0	++	NT	> 480*	6
Chlorine (gas)	7782-50-5	++	NT	> 480	6
Dichloromethane (Methylene chloride)	D 75-09-2	++	NT	> 480*	6
Diethylamine	G 109-89-7	+	NT	91	3
Ethyl acetate	I 141-78-6	++	NT	> 480	6
n-Heptane	J 142-85-5	++	NT	> 480	6
Hydrogen chloride (gas)	7647-01-0	++	NT	> 480	6
Methanol	A 67-56-1	++	NT	124*	4
Sodium hydroxide 40%	K 1310-73-2	++	NT	> 480	6
Sulphuric acid 96 %	L 7664-93-9	=	NT	322	6
Tetrahydrofurane	H 100-99-9	++	NT	> 480	6
Toluene	F 108-88-3	++	NT	> 480	6

NT : not tested yet

Tests performed at 30°C except * at 23°C

Chemical Resistance Index :

- ++ can be used for **long duration contact** (limited to the breakthrough time)
- + can be used for **short repeated contacts** (for a total duration not exceeding the breakthrough time)
- = can be used against **splashes**
- **not recommended**

Degradation Index : a high index indicates a low degradation of the gloves in contact with the chemical.

Breakthrough Time : permeation test performed on the palm of the glove at 30°C in MAPA laboratories, unless otherwise specified.

Permeation Index : a high index indicates a long breakthrough time.