



STC115E - Rev 3 - 20.04.05

CATEGORY III CERTIFICATION

CE 0334

VITAL ECO 115 - 117

CE-Type Examination Certificates

VITAL ECO 115 : 0072/014/162/01/95/0064/Ex06 12 96

VITAL ECO 117 : 0072/014/162/01/95/0064/Ex07 12 96

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

These gloves conform to the provisions of Directive 89/686/EEC for protection against mechanical risks, chemicals, micro-organisms and radioactive contamination.

VITAL ECO 115 - 117

SPECIFIC ADVANTAGES

- Excellent dexterity thanks to the flexibility of natural latex.
- Good resistance to diluted acids and detergents.
- Products manufactured in a MAPA factory, which is ISO 9001 certified.

MAIN FIELDS OF USE

- General cleaning.
- Maintenance work.
- Canteens and restaurants.
- Routine work in contact with chemicals.

INSTRUCTIONS FOR USE

For enhanced safety and service life of the gloves :

- Store the gloves in their original packaging protected from direct sunlight, far from heat sources or electric equipment.
- 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.
- It is not recommended for persons sensitised to natural latex, dithiocarbamates and thiazoles to use these gloves.
- 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 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 down in order to prevent a hazardous chemical from dripping onto the arm.
- Before taking off the gloves, clean them as appropriate :
 - in use with a solvent (alcohol, etc...) : rub over with a dry cloth
 - in use with detergents, acids or alkalies : thoroughly rinse the gloves under running water, and rub over with a dry clothCaution : using the gloves or submitting them to another cleaning or laundering process can alter their performance levels.
- Ensure the inside of the gloves is dry before putting them on again.
- Inspect the gloves for cracks or snags before reusing them.

VITAL ECO 115 - 117

CHEMICAL RESISTANCE CHART

These gloves are designed for protection against numerous chemicals such as mild acids, bases, detergents, alcohol. They are not recommended for contact with petroleum, aromatic or chlorinated solvents. In order to know whether these gloves are appropriate for a given chemical, refer to the table hereafter or enquire to Mapa Professionnel's Technical Customer Service.

The results quoted in this table are relative to tests performed on glove reference 115 and glove of similar nature and thickness.

CHEMICAL	CAS Nr.	Chemical Resistance Index	Degradation Index (1 to 4)	Permeation Breakthrough time (minutes)	Permeation (EN 374) Permeation index (0 to 6)
Acetic acid 100%	64-19-7	=	3	9	0
Cyclohexanone	108-94-1	-	2	9	0
Dimethyl formamide	68-12-2	=	3	12	1
n-n Dimethyl acetamide	127-19-5	=	3	14	1
Ethanol	64-17-5	=	3	14	1
Formaldehyde 30% *	50-00-0	++	4	NT	NT
Hydrochloric acid 35%	7647-01-0	++	4	> 480	6
Hydrogen peroxide 9%	7722-84-1	++	4	> 480	6
Isopropanol	67-63-0	=	3	16	1
Methanol	67-56-1	=	3	8	0
Methylethylketone	78-93-3	-	2	2	0
n-Methyl-2-Pyrrolidone	872-50-4	=	3	18	1
Nitric acid 20%	7697-37-2	++	4	> 480	6
Phosphoric acid 20%	7664-38-2	++	4	> 480	6
Sodium hydroxide 20%	1310-73-2	++	4	> 480	6
1,1,1 Trichlorethane	71-55-6	-	2	3	0

NT: not tested yet

* : Chemical resistance index determined from degradation result only

Chemical Resistance Index :

- ++ can be used for **long duration contact** (limited to 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 in MAPA laboratories, unless otherwise specified.

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

"CE" DECLARATION OF CONFORMITY

The Company

MAPA s.n.c.

57, rue de Villiers
BP 190
92205 Neuilly-sur-Seine Cedex - France

declares that the following MAPA PROFESSIONNEL protective gloves :

VITAL ECO 115
VITAL ECO 117

conform to the gloves which are the subject of **"CE" certificates of conformity nr:**

VITAL-ECO 115 : 0072/014/162/01/95/0064/Ex 06 12 96

VITAL-ECO 117 : 0072/014/162/01/95/0064/Ex 07 12 96

issued by the notified body nr **0072**

I.F.T.H

Av. Guy de Collongue - F-69134 ECULLY CEDEX

They conform to the provisions of directive **89/686/CEE**, designed for protection against **chemicals, micro-organisms and mechanical risks**,

and are manufactured in conformance with the following **European Standards : EN 420, EN 374 and EN 388.**

Prepared at Neuilly-sur-Seine, on June 14, 1998

MAPA
S.N.C. au Capital de 700.000 F.
57, rue de Villiers - BP 190
92205 NEUILLY S / SEINE - Cedex
Siège social : 2, rue de la Harpe, 75008 PARIS
R.C.S. PARIS B 614 397 720

M.RODOT
Technical Customer Service

MAPA S. N. C.
57 RUE DE VILLIERS - BP 190 – 92205 NEUILLY-SUR-SEINE cedex – France –
TEL : 33 (0) 01 49 64 22 00 – FAX : 33 (0) 01 49 64 24 29

www.mapa-professionnel.com