STC299E - Rev 4 - 21.12.05

CERTIFICATION CATEGORY III

CE 0334

INDUSTRIAL 299

CE-Type Examination Certificate

0072/014/162/12/96/0668/Ex011296

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 mechanical risks, chemicals and micro-organisms within the limit of the recommendations hereafter.

57, rue de Villiers - B.P. 190
92205 NEUILLY SUR SEINE Cedex - FRANCE
Tél : (33) 1 49.64.22.00 - Fax : (33) 1 49.64.24.29
www.mapa-professionnel.com

MAPA (U.K.) Ltd
Berkeley Business Park – Wainwright Road
Worcester WR4 9ZS - **U.K.**
Tel : 0 1905 450300 – Fax : 0 1905 450350

MAPA® PROFESSIONNEL

INDUSTRIAL 299

DESCRIPTION AND GENERAL PROPERTIES

Liquidproof glove made of **orange natural latex**.

Cotton flock-lining over an internal layer of **white natural rubber**.

Curved fingers and **contoured palm**.

Non-slip finish in palm and fingers area.

External surface with **silicone.**

Length for all sizes : 31 cm (nominal value).

Thickness in the hand: 0.90 mm (nominal value).

Sizes available : **7 - 7 ½, 8 - 8 ½, 9 - 9 ½, 10 - 10 ½**

Standard packaging :
• **each pair** in printed polyethylene bag
• **50** pairs per carton

"CE"-TYPE EXAMINATION RESULTS

PROTECTION AGAINST CHEMICALS
According to **EN 374** standard.
Liquidproof gloves.
Permeation data :
see the enclosed chemical resistance chart.

AKL

PROTECTION AGAINST MECHANICAL RISKS
According to **EN 374** standard.

3 1 3 1
abrasion resistance (0 to 4)
blade cut resistance (0 to 5)
tear resistance (0 to 4)
puncture resistance (0 to 4)

Acceptable Quality Level **(AQL) : 0.65 %**

PROTECTION AGAINST MICRO-ORGANISMS
Levels of performance according to **EN 388** standard.

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SPECIFIC ADVANTAGES

- Freedom of movement : excellent flexibility of natural latex.
- Flocklined for added comfort.
- Safe handling of slippery objects thanks to the grip pattern.
- Long working life for heavy-duty work.
- Products manufactured in a MAPA factory which is ISO 9001 certified.

MAIN FIELDS OF USE

- Agricultural harvesting.
- Fish farming.
- Fish markets.
- Tanning hides
- Fertilizer production.
- Production and handling of building materials.
- Sand blasting.

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 sensitized to natural latex, thiazols and dithiocarbamates 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 (ketone, etc...) : rub over with a dry cloth
  - ❒ in use with acids or alkalies : thoroughly rinse the gloves under running water, and rub over with a dry cloth

  Caution : improper use of 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.

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CHEMICAL RESISTANCE CHART

These gloves are designed for protection against numerous chemicals such as acids, bases, detergents, alcohols, ketonic solvents. 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.

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	9	0
Butyl acetate*	123-86-4	=	NT	34	2
Cyclohexane*	110-82-7	=	NT	34	2
Cyclohexanone *	108-94-1	+ +	4	50	2
N-N Dimethylacetamide *	127-19-5	+ +	4	197	4
Dimethylformamide*	68-12-2	+ +	NT	142	4
Ethanol*	64-17-5	+ +	NT	115	3
Hydrochloric acid 35%	7647-01-0	+ +	NT	>480	6
Isopropanol*	67-63-0	+ +	NT	226	4
Methanol * A	67-56-1	+ +	4	85	3
Methyl ethyl ketone*	78-93-3	=	NT	26	1
Sodium hydroxide 40% K	1310-73-2	+ +	NT	>480	6
Sulfuric acid 96% L	7664-93-9	+	NT	183	4
Toluene* F	108-88-3	-	NT	14	1
Xylene*	1330-20-7	-	NT	15	1

NT : Not tested yet * on 1 mm thick gloves

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 the palm area of the glove in MAPA laboratories, unless otherwise specified.

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

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