



STC298E - Rev 3 - 20.12.05

CERTIFICATION CATEGORY III

CE 0334

INDUSTRIAL 297 - 298

CE-Type Examination Certificates

INDUSTRIAL 298 : 0072/014/162/12/96/0671

INDUSTRIAL 297 : 0072/014/162/12/96/0671/Ex01 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 and micro-organisms within the limit of the recommendations hereafter.

INDUSTRIAL 297 - 298

DESCRIPTION AND GENERAL PROPERTIES

Liquidproof gloves made of **dark blue natural latex**.

Internal layer of **orange natural latex**.

Curved fingers and **contoured palm**.

Guaranteed **silicone-free**.

Reference	Finish	Glove length for all sizes (in cm)*	Thickness in wrist area (in mm)*	Sizes available
Industrial 297	Dotted	36	1.00	9 - 9 ½ 10 - 10 ½
Industrial 298	Smooth	42		8 - 8 ½ 9 - 9 ½ 10 - 10 ½ 11 - 11 ½

* nominal values

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

Levels of performance according to **EN 388** standard

4 1 4 1

| | | |

| | | | ↳ puncture resistance (0 to 4)

| | ↳ tear resistance (0 to 4)

| ↳ blade cut resistance (0 to 5)

↳ abrasion resistance (0 to 4)

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



PROTECTION AGAINST MICRO-ORGANISMS

According to **EN 374** standard

INDUSTRIAL 297 - 298

SPECIFIC ADVANTAGES

- Freedom of movement : excellent flexibility of natural latex.
- Exclusive MAPA non-slip finish (ref.297).
- Forearm protection : long cuff gloves.
- Longer working life thanks to thickness of the material.
- Products manufactured in a MAPA factory which is ISO 9001 certified.

MAIN FIELDS OF USE

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

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. For added comfort, it is recommended to wear a cotton underglove.
- 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 (cetones, 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 clothCaution : improper use of the gloves or submitting them to another cleaning or laundering process that is not specifically recommended 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.

INDUSTRIAL 297 - 298

CHEMICAL RESISTANCE CHART

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

The results quoted in the table hereafter are relative to tests performed on the glove style INDUSTRIAL 298.

CHEMICAL	CAS Nr.	Chemical Resistance Index	Degradation Index (1 to 4)	Permeation (EN 374)	
				Breakthrough h time (minutes)	Permeation Index (0 to 6)
Acetone	B 67-64-1	=	NT	24	1
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	++	NT	92	3
Methyl ethyl ketone	78-93-3	=	NT	26	1
Sodium hydroxide 40%	K 1310-73-2	++	NT	> 480	6
Sulphuric acid 96%	L 7664-93-9	++	NT	> 480	6
Toluene	F 108-88-3	-	NT	14	1
Xylene	1330-20-7	-	NT	15	1

NT : Not tested yet

* : Tested on glove of identical nature and thickness.

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 of the glove in MAPA laboratories, unless otherwise specified.

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