



STC339E - Rev 1- 22.11.05

CERTIFICATION CATEGORY III

CE 0334

CHEMZOIL NL-339

CE-Type Examination Certificate

0072/014/162/10/01/0144

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, contact heat and chemicals within the limit of the recommendations hereafter.

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MAPA®
PROFESSIONNEL

CHEMZOIL NL-339

DESCRIPTION AND GENERAL PROPERTIES

Black liquidproof glove made of **neoprene (polychloroprene)** rubber with **internal cotton jersey liner**.

Curved fingers and contoured palm.

Anti-slip finish in hand area.

Guaranteed **without silicone**.

Conform to the FDA (Food and Drug Administration) regulation for **food contact**.

Length (for all sizes) : **35,5 cm** (nominal value)

Thickness (in wrist area) : **1,35 mm** (nominal value)

Sizes available : **8 , 9 , 10,11**

Standard packaging :

- **each pair** in printed polyethylene bag
- **6 pairs** par carton including the information leaflet

"CE"- TYPE EXAMINATION RESULTS



PROTECTION AGAINST CHEMICALS

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



PROTECTION AGAINST HEAT

Levels of performance according to **EN 407** standard.
Only the mentioned test is relevant to the usage of the gloves.

x 1 x x x x
↳ **contact heat (0 to 4)**

A B C J K L

Acceptable Quality level (**AQL**) : **4**



PROTECTION AGAINST MECHANICAL RISKS

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

Thanks to their internal liner and their neoprene coating, these gloves can be used for handling hot parts up to 100°C.

3 2 2 1
| | | |
| | | | ↳ **puncture resistance (0 to 4)**
| | ↳ **tear resistance (0 to 4)**
| ↳ **blade cut resistance (0 to 5)**
↳ **abrasion resistance (0 to 4)**

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SPECIFIC ADVANTAGES

- Superior chemical resistance against bases, acids such as concentrated hydrofluoric acid, oils, greases due to the 100% neoprene multilayer coating.
- Safe handling of slippery objects due to the reinforced grip.
- High mechanical resistance and longer working life due to the textile liner and the thickness of glove.
- Thermal insulation provided by the cotton liner.
- Freedom of movement, very comfortable high-quality cotton lining.
- Forearm protection.

MAIN FIELDS OF USE

- Alkylation units at petroleum refineries.
- Handling of hot petrochemical products.
- Metal treatment using acids.
- Resin manufacturing.
- Site decontamination.
- Hazardous chemical emergencies.

INSTRUCTIONS FOR USE

For enhanced safety and service life of the gloves :

- Store the gloves in their original packaging at a temperature not below 5°C.
- 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 dithiocarbamates to use these gloves.
- 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 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 dipping onto the arm.
- Abefore 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 (diluents, etc...) : rub over with a dry cloth
 - in use with acids and alkalies : thoroughly rinse the gloves under running water, and rub over with a dry cloth

Caution : 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 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 acids, bases, alcohols, petroleum solvents. In order to know whether this glove is 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 Breakthrough time (minutes)	Permeation Index (0 to 6)
Acetaldehyde*	75-07-0	=	NT	39	2
Acetic acid 100%	64-19-7	++	NT	> 480	
Acetone B	67-64-1	=	2	32	2
Acetonitrile C	75-05-8	++	NT	110	4
Acrylonitrile*	107-13-1	++	4**	80	3
Benzene*	71-43-2	-	1**	16	1
Butyl acetate	123-86-4	=	2	57	2
Carbon disulphide* E	75-15-0	-	NT	8	0
Carbon Tetrachloride*	56-23-5	-	NT	55	2
1,2- Dichlorobenzene	95-50-1	-	1**	60	2
1,2- Dichloroethane*	107-06-2	-	NT	30	2
Dichloromethane* (Methylene chloride) D	75-09-2	-	NT	7	0
Dimethylacetamide*	127-19-5	++	3**	134	4
n-Heptane J	142-85-5	+	4**	37	2
Hexane*	110-54-3	++	4**	168	4
Hydrochloric acid 35%	7647-01-0	++	4	> 480	6
Hydrogene fluoride 99% (gas)*	7664-39-3	++	NT	> 480	6
n-Methyl- 2- Pyrrolidone*	872-50-4	=	NT	33	2
Methyl ethyl ketone*	78-93-3	-	1**	28	1
Methanol A	67-56-1	++	4	> 480	6
Naphta*	64742-47-8	++	4**	> 480	6
Naphta VM & P*	8032-32-4	++	4**	110	4
Oleum*	8014-95-7	++	3**	332	5
Pyridine*	110-86-1	=	2**	55	2
Sodium hydroxide 50%* K	1310-73-2	++	4**	> 480	6
Sulfuric acid 96 % L	7664-93-9	+	NT	223	4
1,1,2,2-Tetrachloroethane*	79-34-5	-	1**	68	3
Toluene* F	108-88-3	-	1**	17	1
1,2,4 Trichlorobenzene*	120-82-1	-	1**	131	2
1,1,1 Trichloroethane*	71-55-6	-	NT	53	2
Unleaded Gasoline*	8006-61-9	=	2**	47	2
Vinyl chloride*	75-01-4	+	NT	> 480	6
Xylene*	1330-20-7	-	1**	34	1

NT : not tested yet

* : permeation test according to ASTM F739 standard.

** : degradation test based on weight change according to the modified ASTM D471 after a 60 minute contact on the glove Stanzoil 334.

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

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

Indice de perméation: un indice élevé correspond à un temps de passage long du produit chimique au travers du gant.