

STC420E - Rev 4 - 22.02.06

**CERTIFICATION CATEGORY III** 

**(** 0334

## **TECHNIC 420 - 450**

**CE-Type Examination Certificates** 

TECHNIC 420: 0072/014/162/05/94/10514

TECHNIC 450: 0072/014/162/05/94/10514/Ex02 05 94

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.

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.

MAPA<sup>®</sup> PROFESSIONNEL

#### **DESCRIPTION AND GENERAL PROPERTIES**

# Liquidproof gloves made of **black neoprene** (polychloroprene) rubber.

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

Curved fingers and contoured palm.

Non-slip finish in palm and fingers area.

Surface treatment with silicone.

Reference	Glove Length for all sizes	Thickness in wrist area	Sizes available	Standard p Number		
	(in cm)*	(in mm)*		per printed PE bag	per carton	
Technic 420	31		6 - 6 ½	1	100	
			7 - 7 ½			
	41	0.75	8 - 8 ½	1	50	
Technic 450			9 - 9 ½			
			10 - 10 ½			

<sup>\*</sup> nominal values

#### **"CE"-TYPE EXAMINATION RESULTS**



**AJKL** 

## PROTECTION AGAINST CHEMICALS

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



## PROTECTION AGAINST MECHANICAL RISKS

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

see the enclosed chemical 3 1 2 resistance chart

Acceptable Quality Level (AQL): 0.65 %



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#### **SPECIFIC ADVANTAGES**

- Freedom of movement : flexibility of neoprene and comfort of cotton flocklining.
- Excellent grip thanks to raised pattern.
- Multi-purpose chemical resistance : acids, aliphatic solvents.
- Resistant to sunlight and ozone.
- Products manufactured in a MAPA factory which is ISO 9001 certified.

#### MAIN FIELDS OF USE

- Handling in chemical industry
- Manufacture of electrical accumulators
- Application of fertilizer
- Leather treatment

- Manufacture of applied abrasives
- Manufacture and installation of ovens
- Glue manufacturing

### **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 natural latex, thiazoles 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	paints,	pigments	and	inks	: wipe	with	а	clean	cloth	dampened	with	а
suitable	solve	ent, and	rub over v	vith a	dry o	oloth							

☐ in use with a solvent (diluents, 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 a cleaning or laundering process which 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.

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## **TECHNIC 420 - 450**

### **CHEMICAL RESISTANCE CHART**

These gloves are designed for protection against numerous chemicals such as acids, bases, alcohols, petroleum 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 Breakthrough time (minutes)	(EN 374) Permeation index (0 to 6)
Acetic acid 100%		64-19-7	=	4	182	4
Acetone	В	67-64-1	=	3	16	1
Acetonitrile	С	75-05-8	=	NT	11	1
2-Butoxyethanol		111-76-2	++	4	103	3
Butyl acetate		123-86-4	=	2	22	1
T-butyl methyl ether		1634-04-4	=	2	20	1
Cyclohexane		110-82-7	+	3	40	2
Dichloromethane	D	75-09-2	-	2	3	0
Diethylamine	G	109-89-7	-	2	7	0
N-N Dimethylacetamide* (DMAC)		127-19-5	+	3	32	2
Dimethyl formamide (DMF)		68-12-2	+	3	48	2
Dimethyl sulfoxide (DMSO)		67-68-5	++	4	> 360	5**
Ethanol		64-17-5	++	4	135	4
Ethyl acetate	I	141-78-6	=	3	13	1
n-Heptane	J	142-82-5	+	NT	33	2
Hexane*		110-54-3	++	4	30	1
Hydrochloric acid 35%		7647-01-0	++	4	> 480	6
Hydrofluoric acid 48%*		7664-39-3	=	NT	15	1
Hydrofluoric acid gas 99%* (hydrogen fluoride)		7664-39-3	=	NT	25	1
Isopropanol		67-63-0	++	4	288	5
Methanol A		67-56-1	++	4	70	3
Methyl ethyl ketone (MEK)		78-93-3	•	2	9	0

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### **TECHNIC 420 - 450**

#### CHEMICAL RESISTANCE CHART

CHEMICAL		CAS Nr	Chemical Resistance Index	Degradation Index (1 to 4)	Permeation Breakthrough time (minutes)		
Methyl isobutyl ketone (MIBK)		108-10-1	=	3	24	1	
Methyl methacrylate		80-62-6	=	3	9	0	
N-Methyl-2 Pyrrolidone		872-50-4	+ 3		55	2	
Naphta		64742-47-8	++ 4		123	4	
Nitric acid 68%		7697-37-2	++	4	> 480	6	
Nitrobenzene*		98-95-5	=	2	41	2	
2-Nitropropane	2-Nitropropane		=	3	30	1	
Phosphoric acid 75%		7664-38-2	++	4	> 480	6	
Sodium hydroxide 40%	K	1310-73-2	++	NT	> 480	6	
Styrene		100-42-5	=	2	13	1	
Sulphuric acid 96%	L	7664-93-9	=	4	225	4	
Tetrachlorethylene (perchlorethylene)		127-18-4	-	2	8	0	
Tetrahydrofurane (THF) H		109-99-9	-	1	8	0	
Toluene <b>F</b>		108-88-3	-	1	6	0	
1,1,1 Trichlorethane		71-55-6	=	2	20	1	
Trichlorethylene		79-01-6	-	2	5	0	
Vinyl acetate		108-05-4	=	3	7	0	
Xylene		1330-20-7	-	1	12	1	

<sup>\*\*</sup> test discontinued after 6 hours

NT: not tested yet

#### **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 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.

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<sup>\*:</sup> According to ASTM F739 test method



## "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 :

NEOPRENO 419 TECHNIC 401 TECHNIC 420 TECHNIC 450

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

NEOPRENO 419: 0072/014/162/05/94/10516 TECHNIC 401 : 0072/014/162/05/94/10517 TECHNIC 420 : 0072/014/162/05/94/10514

TECHNIC 450: 0072/014/162/05/94/10514-EX 02/05/94

issued by the notified body nr 0072

I.F.T.H

Av. Guy de Collongue - F-69132 ECULLY CEDEX

They are manufactured under a certified **Quality Assurance System** issued by the **notified body nr 0334** 

**ASQUAL** 

**CERTIFICATION CATEGORY III** 

14, rue des Reculettes F-75013 PARIS

They conform to the provisions of directive **89/686/CEE**. They are designed for protection against **chemicals**, **micro-organisms and mechanical risks**, as specified in Article 8-4.(a) within the limits of use described in the technical documentation.

They are manufactured in conformance with the following **European Standards**: **EN420. EN 374 and EN 388** 

Prepared at Neuilly-sur-Seine, on November 18, 2005

MAPA

N.C. au Capital de 700.000 F.

rue de Villiers - BP 190

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M.RODOT Technical Customer Service

MAPA s. n. c.