STC382E - REV 0 – 17.08.05

CERTIFICATION CATEGORY III

CE 0334

STANZOIL NK 22- 382

CE -Type Examination Certificate
0072/014/162/03/05/0027
issued by the approved body nr. 0072
I. T. F. 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, chemicals and micro-organisms.

57, rue de Villiers - B.P. 190
92205 NEUILLY SUR SEINE Cedex - FRANCE
Tel : (33) 1 49 64 22 00 - Fax : (33) 1 49 64 24 29
www.mapa-professionnel.com

MAPA (U.K.) Ltd
Unit A - Halesfield 14 - TELFORD TF7 4QR
Tel (44) 1952 684 487 / Fax (44) 1952 580 959

MAPA® PROFESSIONNEL

STANZOIL NK 22 - 382

DESCRIPTION AND GENERAL PROPERTIES

Liquidproof glove made of **blue neoprene (polychloroprene)** over a **cotton knit lining**.

Do not contain natural rubber latex.

Curved fingers and **contoured palm**.

Non-slip finish in palm and fingers area.

Guaranteed **silicone-free**.

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

Thickness of liquidproof material (in wrist area): **0.35 mm** (nominal value)

Glove thickness (in wrist area) : **0.9 mm** (nominal value)

Glove length (for all sizes) : **35.5 cm** (nominal value)

Sizes available : **7 - 7 ½**
8 - 8 ½
9 - 9 ½
10 - 10 ½
11 - 11½

Standard packaging :

- **12 pairs** in printed polyethylene bag
- **72 pairs** per box

"CE"-TYPE EXAMINATION RESULTS

A C K L

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

PROTECTION AGAINST MICRO-ORGANISMS
According to EN 374 standard.

AQL (Acceptable Quality Level): **1.5%**

PROTECTION AGAINST MECHANICAL RISKS
Levels of performance according to EN 388 standard.

PROTECTION AGAINST HEAT
Levels of performance according to EN 407 Standard.
Only the mentioned test is relevant to the usage of the glove.

2 1 2 1
| | | |
| | | └→puncture resistance (0 to 4)
| | └→tear resistance (0 to 4)
| └→blade cut resistance (0 to 5)
└→abrasion resistance (0 to 4)

x 1 x x x x
└→contact heat (0 à 4)

Thanks to its internal liner and its neoprene coating, this glove can be used for handling hot parts up to 100°C.

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SPECIFIC ADVANTAGES

- Two gloves in one for safer chemical protection.
- Excellent flexibility thanks to the unique MAPA process
- Raised pattern to provide optimum grip of wet parts.
- Comfort of the hand and thermal insulation thanks to the cotton lining.
- Good mechanical resistance.
- Recommended for persons sensitized to natural rubber proteins.
- Product manufactured in a MAPA factory which is ISO 9001 certified.

MAIN FIELDS OF USE

- Laboratory tests
- Mixing of chemicals
- Surface treatments
- Petrochemical refineries
- Handling valves
- Machinery maintenance
- Handling chemicals
- Engine assembly

INSTRUCTIONS FOR USE

For enhanced safety and service life of the gloves :

- Store the gloves in their packaging at a temperature above 5° C.
- It is recommended to check that the gloves are suitable for the intended use, because the conditions of use at the workplace may differ from the "CE"-type tests.
- It is not recommended for persons sensitized to 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 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 or 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 putting them on again.
- Inspect the gloves for cracks or snags before reusing them.

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GUIDE DE RESISTANCE CHIMIQUE

This glove is designed for protection against numerous chemicals such as acids, alcohols, petroleum, solvents. Avoid contacts with pure aromatic and 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))
Acetaldehyde*	75-07-0	=	4**	8	0
Acetic acid 50%*	64-19-7	+ +	4**	>480	6
Acetic acid (glacial)*	64-19-7	+ +	3**	288	5
Acetone **B**	67-64-1	=	3**	6	0
Acetonitrile **C**	75-05-8	=	NT	37	2
Acrylonitrile*	107-13-1	=	4**	16	1
Ammonium hydroxide 29 %	1336-21-6	+ +	4**	147	4
Aniline*	62-53-3	+ +	3**	102	3
Benzene*	71-43-2	-	1**	5	0
Butoxyethanol*	111-76-2	+ +	4**	295	5
Butyl acetate*	123-86-4	-	1**	11	1
Carbon disulfide* **E**	75-15-0	-	4**	2	0
Carbon tetrachloride*	56-23-5	-	1**	12	1
1,2-Dichloroethane*	107-06-2	-	1**	6	0
Dichloromethane (methylene chloride)* **D**	75-09-2	-	3**	2	0
Diethanolamine*	111-42-2	+ +	4**	>480	6
n-n Dimethylacetamide*	127-19-5	=	2**	26	1
Dimethylsulfoxide (DMSO)*	67-68-5	+ +	4**	346	5
Ethanol*	64-17-5	+ +	4**	363	5
2- Ethoxyethanol*	110-80-5	+ +	4**	265	5
Ethylacetate **I**	141-78-6	-	NT	5	0
Ethylene glycol*	107-21-1	+ +	4**	>480	6
Formaldehyde 37%*	50-00-0	+ +	4**	>480	6
Hexane*	110-54-3	+	4**	34	2
n-Heptane **J**	142-85-5	=	NT	28	1
Hydrazine 70%*	302-01-2	+ +	4**	>480	6
Hydrochloric acid 37%*	7647-01-0	+ +	4**	>480	6
Hydrogen fluoride (gaz) 99%*	7664-39-3	=	NT	71	3
Isobutanol*	78-83-1	+ +	4**	>480	6
Isopropanol*	67-63-0	+ +	4**	>480	6
Methanol **A**	67-56-1	+ +	NT	133	4
Methyl ethyl ketone*	78-93-3	-	2**	8	0
Naphta VM & P*	8032-32-4	+	4**	25	1
Nitric acid 50%*	7697-37-2	+ +	4**	>480	6
Phosphoric acid 85%*	7664-38-2	+ +	4**	>480	6
Potassium hydroxide 50%*	1310-58-3	+ +	4**	>480	6
Pyridine*	110-86-1	-	2**	9	0
Sodium hydroxide 50% **K**	1310-73-2	+ +	NT	> 480	6
Sulphuric acid 50%*	7664-93-9	+ +	4**	>480	6
Sulphuric acid 96% **L**	7664-93-9	=	1**	46	2
Unleaded petrol*	8006-61-9	-	1**	10	0
Xylene*	1330-20-7	-	1**	7	0

NT : not tested yet * Tested according to ASTM F 739

** Degradation test based on weight change according to the modified ASTM D471 after a 60 minute contact

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 in MAPA laboratories, unless otherwise specified.

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

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