

PROTECTION AND DEXTERITY



STC180E - Rev 4 - 05.11.2002

CATEGORY III CERTIFICATION

CE 0334

DUO-NIT 180 - 181

CE-Type Examination Certificates

DUO-NIT 180 : 0072/014/162/12/96/0680

DUO-NIT 181 : 0072/014/162/12/96/0680/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.

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MAPA[®]
PROFESSIONNEL

DUO-NIT 180 - 181

DESCRIPTION AND GENERAL PROPERTIES

Liquidproof gloves made of a blend of **natural latex and nitrile**.

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

Curved fingers and contoured palm.

Chlorinated finish (DUO-NIT 180 and 181).
External surface coated with **silicone** (DUO-NIT 211).

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

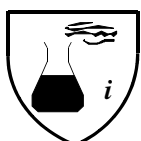
Reference	Finish in hand area	Length for all sizes (in cm)*	Thickness in wrist area (in mm)*	Sizes available
Duo-nit 180	Raised non-slip pattern	31	0.40	6 - 6 ½ 7 - 7 ½ 8 - 8 ½ 9 - 9 ½ 10 - 10 ½
Duo-nit 181	Pebble non-slip pattern			6 - 6 ½ 7 - 7 ½ 8 - 8 ½ 9 - 9 ½

* nominal values

Standard packaging :

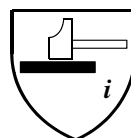
- **each pair** in printed polyethylene bag
- **100** pairs per carton

"CE"-TYPE EXAMINATION RESULTS



PROTECTION AGAINST CHEMICALS

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



PROTECTION AGAINST MECHANICAL RISKS

Levels of performance according to EN 388 standard.

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



PROTECTION AGAINST MICRO-ORGANISMS

According to EN 374 standard.

DUO-NIT 180 - 181

SPECIFIC ADVANTAGES

- Flexible material and cotton flocklining quality for an enhanced comfort.
- Blended material for increased performances : higher resistance to abrasion and perforation.
- Chlorinated finish for a better protection of products handled.
- For food handling.
- Products manufactured in a MAPA factory which is certified ISO 9002.

MAIN FIELDS OF USE

- Rubbing down, sanding.
- Surface treatment in industry.
- Food preparation.
- Production of oils and fats.
- Poultry processing.
- Fruit and vegetable tinning.
- General factory and institutional maintenance.

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, thiurames, 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 a solvent (alcohol, etc...) : rub over with a dry cloth,
 - in use with acids or alkalis : 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.

DUO-NIT 180 - 181

CHEMICAL RESISTANCE CHART

These gloves are designed for protection against numerous chemicals such as mild 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.

Tests are presently performed in order to determine degradation and permeation values. The table below is based on the glove MEDIO 200 of similar nature and 0.5 mm in thickness. It can be used as an indicative guide.

CHEMICAL	Chemical Resistance Index	Degradation Index (1 to 4)	Permeation (EN 374)	
			Breakthrough time (minutes)	Permeation index (0 to 6)
Cyclohexanone	-	2	9	0
N-N Dimethyl acetamide	++	4	34	2
Dimethyl formamide	+	NT	16	1
Ethanol	+	NT	25	1
Methanol	=	4	6	0
Methylethylketone	=	3	3	0
N-Methyl-2-pyrrolidone	+	NT	20	1
2-Nitropropane *	+	3	18	1
Sodium hydroxide 50%	++	NT	>480	6

NT : not tested yet

* : tested on glove ref ALTO 258

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.

"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 :

DUO-NIT 180

DUO-NIT 181

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

DUO-NIT 180 : 0072/014/162/12/96/0680

DUO-NIT 181 : 0072/014/162/12/96/0680/EX01 12 96

issued by the notified body nr **0072**

I.F.T.H

Av. Guy de Collongue - F-69134 ECULLY CEDEX

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

ASQUAL

14, rue des Reculettes
F-75013 PARIS

CATEGORY III CERTIFICATION

They conform to the provisions of directive **89/686/CEE**, 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,

and are manufactured in conformance with the following **European Standards : EN 420, EN 374 and EN 388.**

Prepared at Neuilly-sur-Seine, on November 5, 2002

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M.RODOT
Technical Customer Service

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