



A solution for every hand that works

TO FIND OUT MORE

about new Mapa products and to use Mapa's interactive tool,
scan this QR code with your smartphone.



DEFENSE OUEST
420, rue d'Estienne d'Orves - 92705 Colombes Cedex - France
Tel.: +33 (0)1 49 64 22 00 - Fax: +33 (0)1 49 64 24 29
www.mapa-pro.com



REVISION OF STANDARD EN 374

MAPA PROFESSIONNEL,

a global player in the manufacture and development of protective gloves
provides assistance in understanding the new standards
and undertakes to offer a range of products which are fully compliant.



www.mapa-pro.com

EN ISO 374

Standard EN ISO 374 : 2016

MAPA®
PROFESSIONNEL

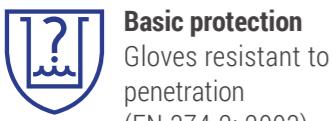
Protective gloves against chemicals
and micro-organisms.



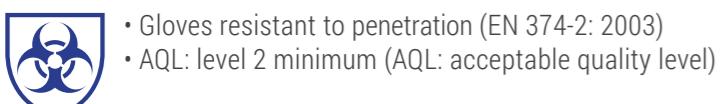
BEFORE

> Standard EN 374-1: 2003

Chemical protection



Protection against micro-organisms (bacteria and fungi)



NOW

> Standard EN ISO 374-1: 2016

Protective gloves against chemicals

It is based on three test methods:

- Penetration test in accordance with standard EN 374-2: 2014
- Permeation test in accordance with standard EN 16523-1: 2015 which replaces standard EN 374-3
- Degradation test in accordance with standard EN 374-4: 2013

ONE PICTOGRAM AND THREE TYPES OF GLOVE		
Type of gloves	Requirement	Marking
Type A	Penetration resistance (EN 374-2) Breakthrough time ≥ 30 min for at least 6 chemicals in the new list (EN 16523-1)	EN ISO 374-1 / Type A
Type B	Penetration resistance (EN 374-2) Breakthrough time ≥ 30 min for at least 3 chemicals in the new list (EN 16523-1)	EN ISO 374-1 / Type B
Type C	Penetration resistance (EN 374-2) Breakthrough time ≥ 10 min for at least 1 chemical in the new list (EN 16523-1)	EN ISO 374-1 / Type C

Degradation test (deterioration of the physical properties of the glove in contact with the chemical) in accordance with EN 374-4: 2013

⚠️ To be able to claim protection against a chemical of the list, permeation and from now degradation tests must be carried out. The results of the degradation test must appear in the information leaflet.

6 new chemicals have been added to the list of hazardous compounds

LIST OF HAZARDOUS COMPOUNDS			
Code	Chemical	CAS number	Class
A	Methanol	67-56-1	Primary alcohol
B	Acetone	67-64-1	Ketone
C	Acetonitrile	75-05-8	Nitrile composite
D	Dichloromethane	75-09-2	Chlorinated hydrocarbon
E	Carbon disulphide	75-15-0	Organic compound containing sulphur
F	Toluene	108-88-3	Aromatic hydrocarbon
G	Diethylamine	109-89-7	Amine
H	Tetrahydrofuran	109-99-9	Heterocyclic ether compound
I	Ethyl acetate	141-78-6	Ester
J	n-Heptane	142-82-5	Saturated hydrocarbon
K	sodium hydroxide 40%	1310-73-2	Inorganic base
L	sulphuric acid 96%	7664-93-9	Inorganic mineral acid, oxidising
M	nitric acid 65%	7697-37-2	Inorganic mineral acid, oxidising
N	acetic acid 99%	64-19-7	Organic acid
O	ammonia 25%	1336-21-6	Organic base
P	hydrogen peroxide 30%	7722-84-1	Peroxide
S	hydrofluoric acid 40%	7664-39-3	Inorganic mineral acid
T	formaldehyde 37%	50-00-0	Aldehyde

> Standard EN ISO 374-5: 2016

Protective gloves against micro-organisms

Gloves must pass the penetration resistance test in accordance with standard EN 374-2: 2014. **The possibility of claiming protection against viruses was added, if the glove passes ISO 16604: 2004 (method B) test.**

EN ISO 374-5

For gloves offering protection against bacteria and fungi.

EN ISO 374-5

For gloves protecting against bacteria, fungi and viruses.