



STC381E - REV 8 - 16.11.05

**CERTIFICATION CATEGORY III**

**CE 0334**

# STANSOLV AK 22- 381

**CE -Type Examination Certificate**

**0072/014/162/03/97/0058**

**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.

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**MAPA®**  
PROFESSIONNEL

# STANSOLV AK 22 - 381

## DESCRIPTION AND GENERAL PROPERTIES

Liquidproof glove made of **green nitrile rubber** over a **cotton knit lining**.

**Curved fingers** and **contoured palm**.

**Anti-slip finish** in palm and fingers area.

Guaranteed **silicone-free**.

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

Glove thickness (in wrist area) : **0,85 mm** (indicative 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 - 11 ½**

Standard packaging :

- **12 pairs** in printed box
- **72 pairs** per carton

## "CE"-TYPE EXAMINATION RESULTS



### PROTECTION AGAINST CHEMICALS

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

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### PROTECTION AGAINST MICRO-ORGANISMS

According to EN 374 standard.

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



### PROTECTION AGAINST MECHANICAL RISKS

Levels of performance according to EN 388 standard.

3 1 2 1

| | | |  
| | | | ↪ **puncture resistance (0 to 4)**  
| | ↪ **tear resistance (0 to 4)**  
| ↪ **blade cut resistance (0 to 5)**  
↪ **abrasion resistance (0 to 4)**



### PROTECTION AGAINST HEAT

Levels of performance according to EN 407 Standard.

Only the mentioned test is relevant to the usage of the glove.

x 1 x x x x

↪ **contact heat (0 to 4)**

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

# **STANSOLV AK 22 – 381**

## **SPECIFIC ADVANTAGES**

- Two gloves in one for safer chemical protection.
- 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
- Food industry
- Surface treatments
- Degreasing of parts
- 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 protected from light and humidity.
- 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 (diluent, 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 : improper use of the gloves or submitting them to a cleaning or laundering process that 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.

# STANSOLV AK 22 - 381

## 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, ketones and nitrogen compounds. 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	-	ND	3	0
Acetone*	<b>B</b> 67-64-1	-	ND	2	0
Acetyl chloride*	75-36-5	-	ND	1	0
Acetic acid (glacial)*	64-19-7	=	2**	91	3
Hydrochloric acid 10%*	7647-01-0	++	ND	>480	6
Hydrochloric acid 37%	7647-01-0	++	ND	>480	6
Phosphoric acid 85%*	7664-38-2	++	ND	>480	6
Sulphuric acid 40%	7664-93-9	++	4	>480	6
Sulphuric acid 96%	<b>L</b> 7664-93-9	=	ND	96	3
Ammonium hydroxide (ammoniaque) 29%*	1336-21-6	++	ND	434	5
Benzene*	71-43-2	-	ND	6	0
Butyl acetate*	123-86-4	=	ND	23	1
t-Butylhydroperoxide*	75-91-2	++	3**	208	4
t-Butyl methyl ether*	1634-04-4	++	4**	230	4
Carbon disulfide*	<b>E</b> 75-15-0	-	ND	3	0
Carbon tetrachloride*	56-23-5	++	3**	114	3
Cyclohexane	110-82-7	++	4	>480	6
1, 2- Dichloroethane*	107-06-2	-	ND	2	0
Dichloromethane (methylene chloride)*	<b>D</b> 75-09-2	-	ND	1	0
Dimethylacetamide*	127-19-5	-	ND	14	1
Ethanol*	64-17-5	++	4**	288	5
2-Ethoxyethyl acetate*	111-15-9	+	ND	66	3
Ethylbenzene*	100-41-4	=	ND	28	1
n-Heptane	<b>J</b> 142-85-5	++	ND	>480	6
Methanol	<b>A</b> 67-56-1	+	4	20	1
Methylisobutylketone*	108-10-1	=	ND	25	1
Naphta (Exxol D40)	64742-47-8	++	4	>480	6
Phosphore trichloride*	7719-12-2	-	1**	15	1
Potassium fluoride*	7789-23-3	++	ND	>480	6
Propylene oxyde*	75-56-9	-	ND	2	0
Sodium hydroxyde 50%	<b>K</b> 1310-73-2	++	ND	> 480	6
Styrene*	100-42-5	-	ND	7	0
Toluene	<b>F</b> 108-88-3	-	2	8	0
1,1,1 Trichloroethane	71-55-6	=	2	21	1
Xylene*	1330-20-7	=	2**	41	2

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.