




### >> Type of use (\*)

Given their construction (fully dipped gloves) these products are perfectly tight to certain liquids. They can therefore be used in car and automobile components assembly and manufacturing, industrial chemical processing, newspaper printing, agriculture... For maintenance works and cleaning, environmental waste clean-up, laboratory testing, janitorial...

### >> Technical features

- ✓ **Construction:** flocklined dipped glove, unsupported.
- ✓ **Designation/materials:** glove in neoprene mixed with latex (\*\*). Cotton flocklined. Embossed palm and fingers.
- ✓ **Colour:** black.
- ✓ **Sizes:** 7, 8, 9, 10.
- ✓ **Length:** 320 mm (\*\*\*).
- ✓ **Thickness:** 0,68 mm (+/- 0.03 mm) (\*\*\*).
- ✓ **Packing:** - carton of 100 pairs.  
- bundle of 10 pairs.   
- under individual polybag.

Learn more: [www.singer.fr](http://www.singer.fr)

(\*\*) Persons sensitive to latex should avoid contact with this material.

(\*\*\*) average values



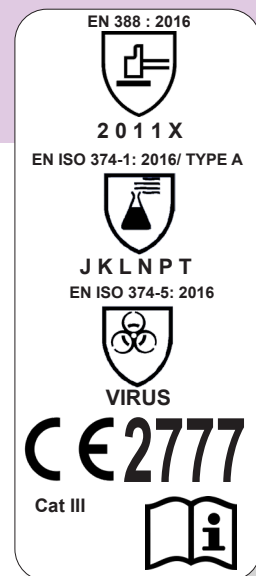
### >> Advantages

- ✓ The guarantee and benefits of an ISO 9001 certified manufacturing: quality of products, regularity...
- ✓ ISO 14001 certified factory, environmental friendly.
- ✓ Only the highest grade raw material are used in the manufacturing processes.
- ✓ Anatomically shape.
- ✓ Embossed palm and fingers for better grip.
- ✓ In individual hygienic packaging for a better conservation of the product.

### >> Conformity

This glove has been tested according to the following European standards :

- EN 420 : 2003 + A1 : 2009. Protective gloves - General requirements and test methods.
- EN 388 : 2016. Protective gloves against mechanicals risks.
- EN ISO 374-1: 2016. Protective gloves against dangerous chemicals and micro-organisms.  
Part 1. Terminology and performance requirements for chemical risks.
- EN 374-2: 2014. Protective gloves against dangerous chemicals and microorganisms.  
Part 2. Determination of resistance to penetration.
- EN 16523-1: 2015. Determination of material resistance to permeation by chemicals.  
Part 1: Permeation by liquid chemical under conditions of continuous contact.
- EN 374-4: 2013. Protective gloves against chemicals and micro-organisms.  
Part 4. Determination of resistance to degradation by chemicals.
- EN ISO 374-5: 2016. Protective gloves against dangerous chemicals and micro-organisms.  
Terminology and performance requirements for micro-organisms risks.




It complies with European Regulation (EU) 2016/425 on Personal Protective Equipment (PPE). Category III. EU type examination certificate (module B) issued by SATRA (Ireland). Notified body n°2777. Conformity to type based on quality assurance of the production process (module D) set out in Annex VIII of Regulation (EU) 2016/425 is carried out by the notified body SATRA (Ireland). Notified body n°2777.

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**EN 388: 2016. Protective gloves against mechanical risks**

Mechanical data. Information about levels.	Level 1	Level 2	Level 3	Niveau 4	Level 5	Levels ▼	 <b>2011X</b>
Abrasion resistance (number of cycles)	100	500	2000	8000	-	<b>2</b>	
Blade cut resistance (index)	1,2	2,5	5,0	10,0	20,0	<b>0</b>	
Tear resistance (in Newtons)	10	25	50	75	-	<b>1</b>	
Perforation resistance (in Newtons)	20	60	100	150	-	<b>1</b>	
Cut resistance (as per EN ISO13997) (TDM test)	Level A	Level B	Level C	Level D	Level E	Level F	Level
	2	5	10	15	22	30	<b>X</b>



«X» means that the glove has not been submitted to the test.

**EN ISO 374-1: 2016 / TYPE A.**

Protective gloves against dangerous chemicals and micro-organisms.  
Part 1. Terminology and performance requirements for chemical risks.

**EN ISO 374-5 : 2016.**

Protective gloves against dangerous chemicals and micro-organisms.  
Terminology and performance requirements for micro-organisms risks.

EN ISO 374-1 : 2016 / TYPE A	EN ISO 374-5 : 2016
	
<b>J K L N P T</b>	<b>VIRUS</b>



Chemicals ▼	Code ▼	Class ▼
n-Heptane	<b>J</b>	<b>2</b>
Sodium hydroxyde 40 %	<b>K</b>	<b>6</b>
Sulphuric acid 96%	<b>L</b>	<b>4</b>
Acetic acid 99%	<b>N</b>	<b>3</b>
Hydrogen peroxid 30%	<b>P</b>	<b>6</b>
Formaldehyde 37%	<b>T</b>	<b>6</b>

**Type A** gloves are gloves that have passed

i) penetration test as per EN374-2:2014 (water leak & air leak test)

ii) achieved at least **Level 2** (more than **30 min** breakthrough time) for chemical permeation test as per EN16523-1:2015 against minimum **6 chemicals** from the list of 18 test chemicals on Table 2 of EN ISO 374-1:2016.

The 6 tested chemicals are represented by their code letter and marked under the pictogram and

iii) have performed chemical degradation test as per EN374-4:2013 for each chemical claimed and the results are as reported here.

**EN 374-4: 2013.**

Protective gloves against chemicals and micro-organisms.  
Part 4. Determination of resistance to degradation by chemicals.

Chemicals ▼	Code ▼	Degradation ▼	Appearance of the sample after test ▼
n-Heptane	<b>J</b>	<b>78,5 %</b>	Swollen
Sodium hydroxyde 40 %	<b>K</b>	<b>- 4.3 %</b>	No change
Sulphuric acid 96%	<b>L</b>	<b>34.9 %</b>	Swollen
Acetic acid 99%	<b>N</b>	<b>34.9 %</b>	No change
Hydrogen peroxid 30%	<b>P</b>	<b>0.3 %</b>	No change
Formaldehyde 37%	<b>T</b>	<b>-1,0 %</b>	No change

**EN ISO 374-1: 2016**

Chemical Permeation Performance levels

Measured breakthrough time (min)	Permeation performance level
> 10 min	Class 1
> 30 min	Class 2
> 60 min	Class 3
> 120 min	Class 4
> 240 min	Class 5
> 480 min	Class 6

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