

400 mm



**TYPE A
JKLMPST**

>> Type of use (*)

Due to their design (fully dipped gloves) these products are perfectly tight to certain liquids. They can therefore be used for industry, oil drilling, petrochemicals, cleansing, refining automotive assembly, conveyance and gasoline delivery. industrial fishing, (automotive) garage...

>> Technical features

- ✓ **Pattern:** these gloves are made from polyvinyl chloride (P.V.C) dipped on a 100% cotton brushed liner. Double dipped.
- ✓ **Finish:** sandy finish palm. Smooth finish gauntlet.
- ✓ **Colour:** green.
- ✓ **Size:** 10.
- ✓ **Length:** 400 mm (*).
- ✓ **Sanitized®** treatment.
- ✓ **Packing:** - carton of 50 pairs.
- bundle of 10 pairs.



More information: www.singer.fr
(*Average value)



>> Advantages

- ✓ **Liquid tight:** the brushed liner are adjusted on hand molds generally in porcelain and then dipped automatically in a P.V.C bath. This way the gloves are fully dipped and liquid tight.
- ✓ **Cotton liner:** cotton is a natural fibre and can absorb some of the sweat.
- ✓ **P.V.C** provides protection against oils, fats, moderately aggressive chemicals and petroleum hydrocarbons. It offers moreover a very good protection against abrasion.
- ✓ **Sanitized®** treatment: protection against the development of the mould, especially in a humid environment, a protection against microbial attacks, a protection against a discolouration, prevents the bacteria action from bad smell.
- ✓ The **ISO 9001 / ISO 14001** certified production guarantees the reliability / regularity of the production and the control of the environmental impact.



>> Conformity

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

- **EN420 : 2003 +A1 : 2009.** Protective gloves - General requirements and test methods.
- **EN388 : 2016.** Protective gloves against mechanical 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 micro-organisms.
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.
Part 5: Terminology and performance requirements for micro-organisms risks.

EU type examination certificate (**module B**) issued by **SATRA** (Irland). Notified body **n°2777**.

The PPE is subject to the conformity assessment procedure based on quality assurance of the production process (**Module D**) set out in Annex VIII (Category III) under surveillance of **SGS Fimko Oy**. Notified body **n°0598**.


Download the EU declaration of conformity on: <http://docs.singer.fr>



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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 ▼	EN 388 : 2016  4 1 2 1 X
Abrasion resistance (number of cycles)	100	500	2000	8000	-	4	
Blade cut resistance (index)	1,2	2,5	5,0	10,0	20,0	1	
Tear resistance (in Newtons)	10	25	50	75	-	2	
Perforation resistance (in Newtons)	20	60	100	150	-	1	
Cut resistance (as per EN ISO13997) (TDM test)	Level A	Level B	Level C	Level D	Level E	Level F	
	2	5	10	15	22	30	X

«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



J K L M P S T

VIRUS



Chemicals ▼	Code ▼	Class ▼
n-Heptane	J	2
Sodium hydroxyde 40 %	K	6
Sulphuric acid 96%	L	3
Nitric acid 65%	M	3
Hydrogen peroxid 30%	P	6
40% Hydrofluoric Acid	S	5
Formaldehyde 37%	T	6

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 EN 16523-1:2015 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 EN 374-4:2013 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 ▼
n-Heptane	J	3.9 %
Sodium hydroxyde 40 %	K	13.5 %
Sulphuric acid 96%	L	62.4%
Nitric acid 65%	M	34.3%
Hydrogen peroxid 30%	P	-1.7%
40% Hydrofluoric Acid	S	X
Formaldehyde 37%	T	1.4%

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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