


**TYPE A  
AKLMPT**

Triple dipped- seamless

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

Given their construction (fully dipped gloves) these products are perfectly tight to certain liquids. They can therefore be used in industry, oil drilling, petrochemicals, cleansing, refining, conveyance and gasoline delivery... With its warm lining these gloves are especially suited for cold environments. (against temperatures up to -20 °C). Refrigerating industry and storage, fishing cold rooms...

**>> Technical features**

- ✓ **Pattern:** these gloves are made from polyvinyl chloride (P.V.C) dipped on a 100% cotton interlock seamless liner. The gloves feature an additional detachable insert of knitted acrylic / wool soft lining to give extra protection against temperature as low as -20°C. Triple dipped.
- ✓ **Finish:** sandy finish palm. Smooth finish gauntlet.
- ✓ **Colour:** blue with yellow insert.
- ✓ **Size:** 10. ✓ **Length:** 300 mm (\*\*).
- ✓ **Sanitized®** treatment.
- ✓ **Packing:** - carton of 50 pairs.   
- bundle of 10 pairs.

More information: [www.singer.fr](http://www.singer.fr) (\*\* Average value)



Warm detachable acrylic / wool lining



Made under



**>> Advantages**

- ✓ The guarantee and benefits of an **ISO9001** certified manufacturing: quality of products, regularity ...
- ✓ **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.
- ✓ **The warm lining in acrylic / wool** (removable for easy cleaning and drying) allows the use in extremely cold environments.
- ✓ **Tough flexible P.V.C** coating specially formulated to give high resistance to chemicals including corrosive chemicals, oils and greases. Flared gauntlet for easy removal.
- ✓ **Additional granular coating** on hand portion to confer excellent grip in wet / dry and oil/solvent applications.
- ✓ **Increased thickness** gives additional wear and abrasion resistance.
- ✓ **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.
- ✓ **Seamless pattern:** enhances user comfort (no roughness, points of overheating) and reduces hand fatigue.

**>> Conformity**

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

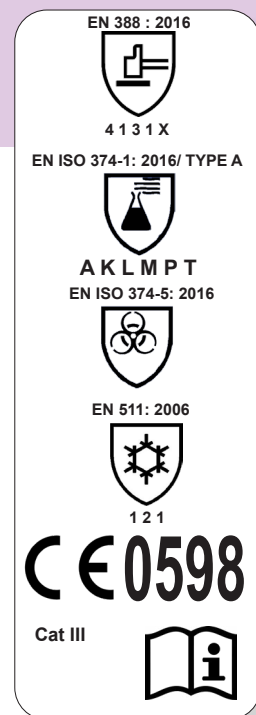
- **EN420 : 2003 +A1 : 2009.** Protective gloves - General requirements and test methods.
- **EN388 : 2016.** Protective gloves against mechanical risks.
- **EN ISO 374-1 : 2016.** Protective gloves against dangerous chemicals and micro-organisms.  
Part 1: Terminology and performance requirements for 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.
- **EN 511 : 2006.** Protective gloves against cold.

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**.

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**. Notified body **n°0598**.

Download the EC 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 ▼
Abrasion resistance (number of cycles)	100	500	2000	8000	-	<b>4</b>
Blade cut resistance (index)	1,2	2,5	5,0	10,0	20,0	<b>1</b>
Tear resistance (in Newtons)	10	25	50	75	-	<b>2</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>

**EN 388 : 2016**



**4 1 2 1 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
	

**A K L M P T**



Chemicals ▼	Code ▼	Class ▼
Methanol	<b>A</b>	<b>3</b>
Sodium hydroxyde 40 %	<b>K</b>	<b>6</b>
Sulphuric acid 96%	<b>L</b>	<b>4</b>
65% Nitric acid	<b>M</b>	<b>5</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 ▼
Methanol	<b>A</b>	- 9.1%
Sodium hydroxyde 40 %	<b>K</b>	- 7.3%
Sulphuric acid 96%	<b>L</b>	2.7%
65% Nitric acid	<b>M</b>	50.1
Hydrogen peroxid 30%	<b>P</b>	3.2
Formaldehyde 37%	<b>T</b>	-4.0


**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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EN 511: 2006. Thermal data Tests	Level obtained ▼	Maximum level ▼	EN 511: 2006
Convective cold	1	4	
Contact cold	2	4	
Water proofness	1	1	
The performance levels and the protection only apply to the complete assembly.			

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**SINGER®**   
safety