









## Area of use\*











## **Technical features**

Support: synthetic fibers

and glass fibers, seamless knitted.

Gauge: 10.

Wrist: elastic knit with piping.

Coating: bi-polymer

(polyurethane and nitrile), fully coated.

Colour: black and grey.

**Sizes:** 7 to 11.

Packaging: carton of 100 pairs. Subpackaging: bag of 10 pairs.

# **Advantages**

- > Non-irritating and easy to adjust with the seamless knitted support.
- > Good support of the glove with the elastic knitted wrist.
- > Increased flexibility and oil resistance with the bi-polymer coating.
- > Glove tightness with full coating.
- > Antibacterial with Sanitized® treatment.



## Certification

This product complies with European Regulation (EU) 2016/425 on Personal Protective Equipment (PPE). Category II. Issued by SATRA, notified body n°2777.

EN 388: 2016





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

## **EN 420: 2003 + A1 2009** - PROTECTIVE GLOVES

General requirements and test methods. This standard specifies the essential requirements for ergonomics, safety, marking, information and instructions for use.

# EN 388 - AGAINST MECHANICAL RISKS



	1	Abrasion resistance. Level 1 to 4 (4 being the best).
	2	Blade cut resistance. Level 1 to 5 (5 being the best).
	3	Tear resistance. Level 1 to 4 (4 being the best).
	4	Puncture resistance. Level 1 to 4 (4 being the best).
		Cut resistance (ISO13997). Level A to F (F being the best).
		Resistance against impact (according to EN 13594). Marking P (optional test).

For gloves that contain materials which can gets dulls to the blade, and additional compulsory test must be performed according to EN ISO 13997 test method (TDM 100 tester).

This test may also be optional for gloves that do not dull the blade.

# EN 374 - AGAINST CHEMICALS

EN 3/4 - AGAINST CHEMICALS						
Г		Type A		Breakthrough time ≥ 30 min for at least 6 chemicals of the list (see below)		
T.	rpe X	Type B	Breakthrough time ≥ 30 min for at least 3 chemicals of the list (see below)			
	X.X	Type C		Breakthrough time ≥ 10 min for at least 1 chemical of the list (see below)		
Α		Methanol	67-56-1	Primary alcohol		
В		Acetone	67-64-1	Ketone		
С		Acetonitrile	75-05-8	Nitrile composite		
D	Di	chloromethane	75-09-2	Chlorinated hydrocarbon		
Е	Car	bone Disulphide	75-15-0	Organic compound containing Sulphur		
F	Toluene Diethylamine Tetrahydrofuranne Ethyl acetate n-Heptane Sodium hydroxide 40%		108-88-3	Aromatic hydrocarbon		
G			109-89-7	Amine		
Н			109-99-9	Heterocyclic Ether		
I			141-78-6	Ester		
J			142-82-5	Saturated Hydrocarbon		
K			1310-73-2	Inorganic base		
L	Sul	phuric acid 96%	7664-93-9	Inorganic mineral acid, oxidising		
M	Nitr	ic acid (65±3) %	7697-37-2	Inorganic mineral acid		
N	Ace	tic acid (99±1) %	64-19-7	Organic acid		
0	Д	mmonia 25%	1336-21-6	Organic base		
Р	Hydro	ogen peroxid 30%	7722-84-1	Peroxide		
S	Hydr	ofluoric acid 40%	7664-39-3	7664-39-3 Inorganic mineral acid		
Т	For	maldehyde 37%	50-00-0 Aldehyde			
Classe 1		Breakthrough time: > 10 minutes				
Classe 2			Breakthrough time: > 30 minutes			
	Cla	asse 3		Breakthrough time: > 60 minutes		
	Cla	asse 4		Breakthrough time: > 120 minutes		
Classe 5			Breakthrough time: > 240 minutes			
	Cla	asse 6		Breakthrough time: > 480 minutes		

### ASTM F2878 - PUNCTURE RESISTANCE TO AN HYPODERMIC NEEDLE



Level 1	Puncture resistance with a less or an equal force to 2 N.
Level 2	Puncture resistance with a less or an equal force to 4 N.
Level 3	Puncture resistance with a less or an equal force to 6 N.
Level 4	Puncture resistance with a less or an equal force to 8 N.
Level 5	Puncture resistance with a less or an equal force to 10 N.
	Level 2 Level 3 Level 4

#### EN 374-5 - AGAINST MICRO-ORGANISM



Protection against bacteries and fungi

VIRUS = with additional permeation test to virus (ISO16604)

#### EN 511 - AGAINST THE COLD



	Α	Convective cold. Level 0 to 4 (4 being the best).		
	В	Contact cold. Level 0 to 4 (4 being the best).		
	С	Waterproofness. Level 0 (No) or 1 (Yes).		

#### **EN 407 -** AGAINST THERMAL RISKS (HEAT AND/OR FIRE



	Α	Burning behaviour. Level 1 to 4 (4 being the best).		
	В	Contact heat (threshold time $\geq$ 15 s). Level 1 to 4 (4 being the best).		
	С	Convective heat. Level 1 to 4 (4 being the best).		
F	D	Radiant heat. Level 1 to 4 (4 being the best).		
	Е	Small splashes of molten metal. Level 1 to 4 (4 being the best).		
	F	Large spashes of molten metal. Level 1 to 4 (4 being the best).		

## **EN 12477 + A1 -** FOR WELDERS

Type A	More general welding and cutting operations	
Type B	Higher dexterity for TIG welding	

### EN 381-7 - AGAINST HAND-HELD CHAIN SAWS



	Class 0	Resistance against a saw turning at 16 m/s	
	Class 1	Resistance against a saw turning at 20 m/s	
	Class 2	Resistance against a saw turning at 24 m/s	
	Class 3	Resistance against a saw turning at 28 m/s	
Model A or B depending on the specified protection area			

### EN ISO 10819 - VIBRATION AND MECHANICAL SHOCKS

Hand-arm vibration. Measurement and evaluation of the vibration transmissibility from gloves to the palm of the hand.

## EN 16350 - ELECTROSTATIC PROPERTIES

Each individual measurement shall satisfy: the vertical resistance requirement: Rv < 1,0 x 10 $^{8}$   $\Omega$ . Test method according to EN 1149-2: 1997.

EN COOOS	BAASZIBAAT		
EN 60903	) = MAXIMAL	TENSION	OF USE



AC	DC	Class
750 V	500 V	00
1 500 V	1 000 V	0
11 250 V	7 500 V	1
25 500 V	17 000 V	2
39 750 V	26 500 V	3
54 000 V	36 000 V	4

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