



PPE: PROTECTIVE GLOVES

CODE

SHR 103

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PERFORMANCE (PROTECTION) LEVELS: CLASSES

Numbers that indicate categories or ranks of performance, according to the results of a series of tests:

- **Level 0:** a glove that has not been tested or that is below the minimum value for a specific hazard.
- **Levels 1 to 5:** indicators of less to more protection.

PROTECTION

Depending on how they work, gloves must protect against the following risks:

- Hand injuries due to external actions.
- Hazards to people due to actions on the hands.
- Health hazards or discomfort associated with the use of protective gloves (hazard of trapping in moving parts, sweating, tears and allergies, etc.).

MARKING

Protective gloves must be marked with the following:

- CE marking (according to Royal Decree 1407/1992 on conditions for marketing and free movement of personal protection equipment around the European Community).
- Name, registered trademark or any other means of identifying the manufacturer or the authorised representative.
- Name of the glove (trade name or code used to identify the product in the manufacturer's range or that of their authorised representative).
- Size.
- Expiry date, if the protective features can be significantly affected by ageing.

Likewise, the packaging of the glove could be marked with this information and with the appropriate pictogram(s) showing the risk covered by the glove and the protection levels.



SAFETY AND HYGIENE REGULATIONS



Servei de Prevenció de Riscos Laborals
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The pictograms corresponding to the types of hazard are:

Mechanical hazards	Cold hazards	Impact cut hazards	Heat and fire
Static electricity	Chemical hazards	Ionizing radiation and radioactive contamination	Microorganisms

	According to Standard EN 407
	1 Large splashes of molten metal
	3 Small splashes of molten metal
	2 Resistance to radiant heat
	1 Resistance to convective heat
	1 Resistance to contact heat
1 3 2 1 1 0	0 Resistance to flammability

	According to Standard EN 388
	3 Puncture resistance
	5 Tear resistance
	1 Blade cut resistance
	3 5 1 2



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When gloves are of a simple design to protect the user only from the indicated hazards, the packaging must contain the phrase: “**For minimal risks only**”.

SELECTION: RECOMMENDATIONS

1. Before personal protection equipment is purchased, the **table of risks** should be completed to obtain more accurate criteria.
2. The **manufacturer’s information booklet** should be considered, and must include the following useful information:
3. Name and address of the manufacturer or authorised representative.
4. Name of the gloves (trade name or code).
5. Available sizes.
6. Classes of protection.
7. Explanation of markings.
8. Storage.
9. Use, maintenance, cleaning and disinfection.
10. Expiry date or service lifetime, etc.
11. If the protection is limited to only one part of the hand, this feature must be indicated.
12. List of substances contained in the gloves that are known to produce allergies.
13. Any other useful information.

DEFINITION OF THE EXPRESSION “FOR MINIMAL RISKS ONLY”

This category is only applied to gloves designed to protect the user against the following:

- Mechanical action whose effects are superficial.
- Cleaning products with a weak action and easily reversible effects.
- Hazards due to handling hot objects when users are not exposed to temperatures above 50°C or hazardous impacts.
- Atmospheric agents that are not exceptional or of an extreme nature.
- Minor impacts and vibrations that do not affect vital areas of the body or cause irreversible injuries.

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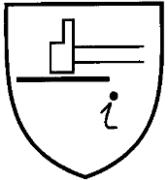
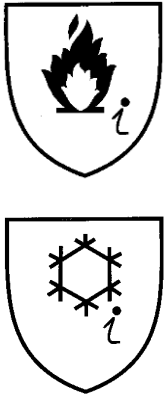
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SELECTION OF PERSONAL PROTECTION EQUIPMENT (PPE): PROTECTIVE GLOVES

TYPE OF HAZARD	PICTOGRAM	PARAMETERS		LEVELS OF PROTECTION (less–more)	
Mechanical (cuts, abrasion, puncture, tears, etc.)	 [1] [2] [3] [4]	Resistance to:	Abrasion	[1]	From 1 to 4
			Blade cut	[2]	From 1 to 5
			Tear	[3]	From 1 to 4
			Perforation	[4]	From 1 to 4
Thermal (heat, cold, flames, splashes, etc.)	 [1] [2] [3] [4] [5] [6]	Resistance to:	Flame behaviour	[1]	From 1 to 4
			Contact heat	[2]	From 1 to 4
			Convective heat	[3]	From 1 to 4
			Radiant heat	[4]	From 1 to 4
			Small splashes of molten metal	[5]	From 1 to 4
			Large splashes of molten metal	[6]	From 1 to 4
			Cold	Convective	From 1 to 4
	By contact	From 1 to 4			

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TYPES OF RISK	PICTOGRAM	PARAMETERS	LEVELS OF PROTECTION (less–more)
Chemical and biological (acids, bases, solvents, pathogenic agents, etc.)		According to the “passage time” (time the chemical product takes to pass through the glove)	From 1 to 6

TYPES OF RISK	PICTOGRAM	PARAMETERS				MARK
		CLASSES (depending on electrical characteristics)	COLOUR	ELECTRICAL LIMITS (alternating current) [kV root mean square value]	CATEGORIES (according to resistance)	
Electrical (contact with electrical conductors, electrostatic discharges, etc.)		00	Beige	0.5	A (acids)	
		0	Red	1.0	H (oils)	
		1	White	7.5	Z (ozone)	
		2	Yellow	17.0	M (mechanical)	
		3	Green	26.5	R (combination of above)	
		4	Orange	36	C (low temperatures)	