

Scope of application

Workers employed in the agriculture and livestock sectors are often exposed to pesticides that can be harmful to their health.

Wearing appropriate gloves is essential to prevent health risks and contamination, while ensuring comfort, freedom of movement, and dexterity.

The **ISO 18889:2019** standard specifies the requirements for gloves that provide protection against pesticides. This standard classifies gloves into three types: “**G1**”, “**G2**”, and “**GR**”.

 ISO 18889	Low protection	Phytosanitary treatment Not suitable for contact with concentrated pesticide solutions	No mechanical resistance	
 ISO 18889	High protection	Preparation of concentrated pesticide solutions	Mechanical resistance	
 ISO 18889	Partial protection (minimum surface area of protective coating on the palm and fingertips; breathable on the back)	Re-entry activities (harvesting and transporting agricultural products). Suitable for contact with dried pesticide residues	Mechanical resistance	

The **ISO 18889:2019** standard establishes several performance requirements, in addition to pesticide permeation testing, that must be met.

- EN ISO 374-1 for chemical permeation
- EN 374-2 (applicable only to G1 and G2 types) for air leak and water leak testing
- EN 388 (applicable only to G2 and GR types) for mechanical resistance
- ISO 21420 for general requirements, including sizing, dexterity, and chemical innocuousness tests

Protection	Chemical	Chemical	Mechanical	General requirement
Test	Penetration	Permeation	Abrasion Cut Tear Puncture	Sizing, dexterity, chemical innocuousness
Standard	EN 374-2	EN ISO 374-1 ISO 19918*	EN 388	ISO 21420
G1	passed	≥ Type C ≤ 10 µg/cm²	NA	compliant
G2	passed	≥ Type B ≤ 1 µg/cm²	≥ level 2 ≥ level 1 or ≥ level A NA ≥ level 1	compliant
GR	NA	≥ level 2 with letter K (40% sodium hydroxide) ≤ 1 µg/cm²	≥ level 2 ≥ level 1 or ≥ level A ≥ level 1 ≥ level 1	compliant

***Cumulative permeation:** amount of chemical substance permeated per square centimetre of the glove. A substitute pesticide solution is used — diluted (EC-DY at 2.5%) for G1 and GR, or concentrated for G2.

REFLEX 97 HD

Main use



NITRILE GLOVE

LIGHT INNER FLOCK-LINING

Externally chlorinated.

Excellent chemical (polyvalent) **and mechanical** (abrasion) **resistance.**
Suitable for contact with all types of food.

PPE Cat. III TYPE A

ISO 18889:2019 level G2:

Certified for protection against pesticides.

Sold in pairs.



HEAVY NITRILE

Features

Pair weight	63.0 g +/- 5.0 (M)
Palm thickness	0.40 mm +/- 0.05
Length	33 cm
Colour	Green
Surface	Anti-slip pattern

Allergens



Other

Lightly flock-lined; silicone not intentionally added to the glove composition.



Certifications

PPE Cat. III	Reg EU 2016/425
EN ISO 374-1:2016	Type A / JKLOPT
EN ISO 374-5:2016	Microorganisms (bacteria/fungi), VIRUS
EN 388:2016+A1:2018	4101X
ISO 18889:2019	G2
Food Contact	DM 21/03/1973 Reg EU 10/2011
AQL	≤1.5



PPE | DPI
Cat. III



Food Suitability

Tested for 30' at 40°

Aqueous	✓	Alcoholic	✓
Acid pH≤4.5	✓	Oily, fatty	✓
Dairy	✓	Dry food	✓

Product Codes

CODE/SIZE	EAN DISPENSER	EAN CARTON BOX
R97/M	8032891632499	8032891637494
R97/L	8032891632505	8032891637500
R97/XL	8032891632512	8032891637517
R97/XXL	8032891632529	8032891637524

Packing



* 5 masterbags of 10 packs each