

GREEN GENERAL RISK

ecoSHIELD™ Eco Nitrile PF 250



















- ⇒ Powder-free ambidextrous extra length (250-260 mm / 9.8"-10.2") non-sterile nitrile protective gloves.
- \Rightarrow Personal Protective Equipment Category III (PPE Complex Design) according to Regulation (EU) 2016/425.
- ⇒ Medical Device Class 1 (MDR) according to the Regulation (EU) 2017/745.
- ⇒ Fully compliant to the latest EU PPE norms relating to protective gloves against chemicals, micro-organisms and viruses.

DESCRIPTION	
Formulation	Nitrile synthetic rubber (acrylonitrile butadiene).
Design	Green, ambidextrous, beaded cuff, textured fingertips.
Packaging	150 gloves per dispenser - 10 dispensers per carton.

SIZES	6/XS	7/S	8/M	9/L	10/XL
Codes	62 5121	62 5122	62 5123	62 5124	62 5125

STANDARDS	
CE registration	PPE Category III (Complex Design) - Regulation (EU) 2016/425. Notified Body No 0598: SGS Fimko Oy, Helsinki - FINLAND. MDR Class 1 - Regulation (EU) 2017/745.
EU PPE norms	ISO 21420:2020, EN 421:2010, ISO 374-1:2016+A1:2018, ISO 374-2:2019, ISO 374-4:2019, ISO 374-5:2016, EN 16523-1:2015+A1:2018 and ISO 16604:2004 Procedure B.
EU MDR norms	EN 455-1:2020, EN 455-2:2015, EN 455-3:2015 and EN 455-4:2009.
USA standards	ASTM D3767-03 (2020), ASTM D573-04 (2019), ASTM D412-16.
Other standards	EN1149-1/2/3 & 5, ISO 21171:2006, ISO 10993-10:2010.

QUALITY	
Quality assurance	Production management in accordance with ISO 9001:2015 and ISO 13485:2016. Environmental management systems in accordance with ISO 14001:2015.
Technology	twinSHIELD™ double-walled protection to offer a stronger glove and to reduce the risk of pinholes. Two colours: green to make it easier to select according to the risk, combined with a soft and comfortable white interior.
Ecological	50% more products in the same volume to save storage space. Ink on the packaging reduced by 60%. Packaging made from recycled cardboard. Supply chain optimized to reduce CO ₂ emissions by more than 15% in the delivery of product.

DOCUMENTATION		
Declaration of conformity	These documents can be freely downloaded from the product page on our website: www.shieldscientific.com.	□ (23%) □ 20% (30%)
EU type examination certificate	For easy access, scan the QR code.	
User's instructions		

PHYSICAL PROPERTIES



**\begin{align*}
0.10 \text{mm} \\
3.9 \text{mil}

250_{mm} 9.8_{in.}

AQL 0.25

NOI	MINAL THICKNESS	mm ¹	mil	Norm
\Rightarrow	Finger	0.17	6.7	
\Rightarrow	Palm	0.10	3.9	ASTM D3767-03 (2020)
\Rightarrow	Cuff	0.08	3.1	

¹ Thickness (+/- 0.03 mm)

LENGTH	Minimum	Typical	Norm
⇒ From middle finger tip to	≥ 245 mm / 9.6"	250 mm / 9.8"	ISO 21420:2020

STRENGTH PROPERTIES	Force at break (spec.)	Ultimate elongation (spec.)	Force at break (typical)	Norm
⇒ Before aging	≥ 6.0N 14 MPa	≥ 500%	8.0N	EN 455-2:2015
⇒ After aging	≥ 6.0N 14 MPa	≥ 400%	7.0N	ASTM D573-04 (2019) & ASTM D412-16

FREEDOM FROM HOLES	Performance	Norm
⇒ Acceptable Quality Level (AQL)	< 0.25 ² - Level 3	ISO 374-2:2019 EN 455-1:2020

² AQL as defined per ISO 2859-1:1999 for sampling by attributes.

PROTECTION PROPERTIES

RISKS	Description	Norm
Micro-organisms	1000 ml water test. Performance level 3, AQL < 0.25 (inspection level G1).	ISO 374-2:2019
Viruses	Viral penetration test using Phi-X174 bacteriophage according to ISO 16604:2004 Procedure B.	ISO 374-5:2016
Chemicals	Performance: Type B (JKPT). Permeation: Extensively tested. Online chemical resistance guide on www.shieldscientific.com.	ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018
	<u>Degradation</u> : Tested for determination of resistance to degradation by chemicals.	ISO 374-4:2019
Radioactivity	Protection from radioactive contamination.	EN 421:2010
ESD	Tested for electrostatic properties.	EN 1149-1/2/3 & 5

Demonstrated by skin irritation and sensitization tests in accordance with SO 10993-10:2010. Tree of Thiazoles and Thiurams. These chemical accelerators are excluded from the nanufacturing process. Ion-detectable levels using aqueous solution extraction (Phosphate buffered solution) and ligh Performance Liquid Chromatography (HPLC) assay method for quantitative analysis. Powder-free to minimize the potential consequences of powder-borne dermatitis. Residual owder content is 1.0 mg/glove (typical) with a limit of 2.0 mg/glove (ISO 21171:2006).
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