

#### A REVOLUTION IN GLOVE TECHNOLOGY

### ORANGE BIOLOGICAL RISK

## INFORMATION SHIELDskin<sup>™</sup> ORANGE NITRILE<sup>™</sup> 300 Sterile







- ⇒ Powder-free ambidextrous extra length (300 mm / 11.8") sterile nitrile/neoprene protective gloves.
- ⇒ Personal Protective Equipment Category III (PPE Complex Design) according to Regulation (EU) 2016/425.
- ⇒ Fully compliant to the latest EU PPE norms relating to protective gloves against chemicals, micro-organisms and viruses.

DESCRIPTION	
FORMULATION	Nitrile and neoprene synthetic rubber (acrylonitrile butadiene and polychloroprene).
DESIGN	Orange (Outer)/ White (Inner), ambidextrous, beaded cuff, textured fingertips.
PACKAGING	1 pair per PE peel pouch - 20 pouches per sealed poly bag - 8 poly bags per PE bag per carton.

SIZES	6/XS	7/S	8/M	9/L	10/XL	11/XXL
CODES	67 6351	67 6352	67 6353	67 6354	67 6355	67 6356

STANDARDS	
CE REGISTRATION	PPE Category III (Complex Design) - Regulation (EU) 2016/425.
EU PPE NORMS	EN 420:2003+A1:2009, EN 421:2010, ISO 374-1:2016+A1:2018, EN 374-2:2014, ISO 374-4:2013, ISO 374-5:2016, EN 16523-1:2015+A1:2018 and ISO 16604:2004 Procedure B.
EU MDD NORMS <sup>1</sup>	EN 455-1:2000, EN 455-2:2015, EN 455-3:2015 and EN 455-4:2009.
USA STANDARDS	ASTM D3767-03 (2014), ASTM D573-04 (2015), ASTM D412-16, ASTM D6978-05 (2019) and IEST-RP-CC005.4 (2013).
OTHER STANDARDS	EN1149-1/2/3 & 5, ISO 21171:2006, ISO 11137-2:2015, ISO 10993-10:2010.

With reference to Council Directive 93/42/EEC for Medical Devices

QUALITY	
QUALITY ASSURANCE	Production management in accordance with ISO 9001:2015 and ISO 13485:2016.
TECHNOLOGY	twinSHIELD <sup>™</sup> double-walled protection to offer a stronger glove and to reduce risk of pinholes. Two colours: orange to make it easier to select according to the risk, combined with a soft and comfortable white interior.

DOCUMENTATION	
DECLARATION OF CONFORMITY	These documents can be freely downloaded from the product page on our website: www.shieldscientific.com.
EU TYPE EXAMINATION CERTIFICATE	For an easy access, scan the QR code.
PRODUCT INSERT	
CERTIFICATE OF CONFORMANCE	To access CoC and Col, you need to be registered. Please contact us at info@shieldscientific.com or call your SHIELD Scientific representative.
CERTIFICATE OF IRRADIATION	

#### **PHYSICAL PROPERTIES**



NON	IINAL THICKNESS	mm <sup>2</sup>	mil	Norm
$\Rightarrow$	Finger	0.17	6.7	ASTM D3767-03 (2014)
$\Rightarrow$	Palm	0.14	5.5	
$\Rightarrow$	Cuff	0.10	3.9	

<sup>2</sup> Thickness (+/- 0.03 mm)

LENGTH		Minimum	Typical	Norm
$\Rightarrow$	From middle finger tip to edge of cuff	≥ 290 mm / 11.4"	300 mm / 11.8"	EN 420:2003+A1:2009

	ENGTH PERTIES	Force at break (spec.)		Ultimate elongation (spec.)	Force at break (typical)	Norm
$\Rightarrow$	Before aging	≥ 6.0N	14 Mpa	≥ 500%	10.0N	EN 455-2:2015
$\Rightarrow$	After aging	≥ 6.0N	14 Mpa	≥ 400%	8.0N	ASTM D573-04 (2015) & ASTM D412-16

FREEDOM FROM HOLES	Performance	Norm
$\Rightarrow$ Acceptable Quality Level (AQL)	< 0.25 <sup>3</sup> - Level 3	EN 374-2:2014

<sup>3</sup> 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).	EN 374-2:2014
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 chemicalresistance guide on www.shieldscientific.com.Degradation:Tested for determination of resistance to	ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN 374-4:2013
RADIOACTIVITY	degradation by chemicals.   Protection from radioactive contamination.	EN 421:2010
ESD	Tested for electrostatic properties.	EN 1149-1/2/3 & 5
CLEANLINESS	Compatible with sterile processing. Typical value: < 3.000 particles per cm² and at 0.5 µm.	IEST-RP-CC005.4 (2013)
DNase and RNase CONTAMINATION	DNase and RNase free.	MO BIO Certification
STERILITY	Terminally sterilized by gamma irradiation to Sterility Assurance Level (SAL) of 10 <sup>-6</sup> .	ISO 11137-2:2015
ENDOTOXINS	Low endotoxin content at < 20 EU/pair - Limulus Amoebocyte Lysate (LAL) kinetic turbimetric test.	EN 455-3:2015
СҮТОТОХІС	Tested for permeation to potentially hazardous cancer chemotherapy drugs under conditions of continuous contact.	ASTM D6978-05 (2019)

ALLERGIES	
BIO-COMPATIBILITY	Demonstrated by skin irritation and sensitization tests in accordance with ISO 10993-10:2010.
ACCELERATORS	Accelerator-free to minimize the risk of allergic contact dermatitis (also known as Type IV, delayed hypersensitivity or chemical allergy).
CHEMICAL ALLERGENS	Non-detectable levels using aqueous solution extraction (Phosphate buffered solution) and High Performance Liquid Chromatography (HPLC) assay method for quantitative analysis.
RESIDUAL POWDER	Powder-free to minimize the potential consequences of powder-borne dermatitis. Residual powder content is 1.0 mg/glove (typical) with a limit of 2.0 mg/glove (ISO 21171:2006).
LATEX PROTEIN	Latex-free.

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# SHIELD Scientific

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