SMARTLine™
YOUR FIRST LINE OF DEFENCE

VIOLET
GENERAL
SAFETY

SMARTLine ™
NEO NITRILE™ 290



DOMINIQUE DUTSCHER SAS

PPE Personal Protective Equipment Category III REGULATION (EU) 2016/425
MDR Medical Device Class I REGULATION (EU)2017/745
CE 2797
UK CA 0086
ISO 374-1/Type A KPTOMS
ISO 374-5:2016 VIRUS
EN 388 2XXXX

TECHNICAL INFORMATION

WWW.SHIELDSCIENTIFIC.COM



⇒ Powder-free ambidextrous extra length (290 mm / 11.4") non-sterile neoprene/nitrile protective gloves.

⇒ 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, viruses and mechanical.

DESCRIPTION	
Formulation	Neoprene and nitrile synthetic rubber (*Polychloroprene and acrylonitrile butadiene*).
Design	Green, ambidextrous, beaded cuff, textured fingertips.
Packaging	50 gloves per dispenser - 10 dispensers per carton = 500 gloves.

SIZES	6/XS	7/S	8/M	9/L	10/XL	11/XXL
Codes	10 831	10 832	10 833	10 834	10 835	10 836

STANDARDS	
CE/UKCA registration	PPE Category III (Complex Design) - Regulation (EU) 2016/425. CE Notified Body No 2797: BSI Group The Netherlands B.V., Say Building, John M. Keynesplein 9, Unit 4.2, 1066 EP Amsterdam, The Netherlands. UKCA Notified Body No 0086: BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes, MK5 8PP, United Kingdom. MDR Class 1 - Regulation (EU) 2017/745.
EU PPE norms	ISO 21420:2020+A1:2024, 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, EN 388:2016+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	EN 1149-1/2/3 & 5, ISO 21171:2006, ISO 10993-10:2021.

QUALITY	
Quality assurance	Production management in accordance with EN ISO 9001:2015 and EN ISO 13485:2016. Environmental management systems in accordance with ISO 14001:2015.
Technology	Dual-layer glove: double-walled protection to offer a stronger glove and to reduce risk of pinholes. A green protective outer layer combined with a soft, comfortable violet interior.

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

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PHYSICAL PROPERTIES

NOMINAL THICKNESS	mm[1]	mil	Norm
⇒ Finger	0.28	11.0	ASTM D3767-03 (2020)
⇒ Palm	0.19	7.5	
⇒ Cuff	0.13	5.1	

[1] *Thickness (+/- 0.03 mm)*

LENGTH	Minimum	Typical	Norm
⇒ From middle finger tip to edge of cuff	≥ 290 mm / 11.4"	295 mm / 11.6"	ISO 21420:2020+A1:2024

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

FREEDOM FROM HOLES	Performance	Norm
⇒ Acceptable Quality Level (AQL)	< 1.0 G1[2] - Level 2	ISO 374-2:2019 EN 455-1:2020

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

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PROTECTION PROPERTIES

RISKS	Description	Norm
Micro-organisms	1000 ml water test. Performance level 2, AQL < 1.0 (inspection level G1).	EN 455-1:2020 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 A (KPTOMS). Permeation: Extensively tested. Online chemical resistance guide on www.shieldscientific.com. Degradation: Tested for determination of resistance to degradation by chemicals.	ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 ISO 374-4:2019
Radioactivity	Protection from radioactive contamination.	EN 421:2010
ESD	Tested for electrostatic properties.	EN 1149-1/2/3 & 5
Mechanical	Level 2 (Abrasion).	EN 388:2016+A1:2018

ALLERGIES	
Bio-compatibility	Demonstrated by skin irritation and sensitisation tests in accordance with ISO 10993-10:2021.
Accelerators	Free of Thiazoles and Thiurams. These chemical accelerators are excluded from the manufacturing process.
Residual powder	Powder-free to minimise 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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