






**SHIELDskin XTREME™**  
**Sterile ORANGE NITRILE™ 300 DI**

Powder Free cleanroom laundered Hand-specific Sterile 30 cm Nitrile Gloves

PPE Category III (Complex Design) according to Council Directive 89/686/EEC

Fully compliant to the latest PPE norms – EN 374:2003 “Protective gloves against chemicals and micro-organisms”

## PRODUCT INFORMATION

Size	Catalogue Numbers	Applicable Norms with Pictograms		
5.5	69 6551	EN 374:2003 	EN 374:2003 	
6.0	69 6552			
6.5	69 6553			
7.0	69 6554	EN 420:2003 + A1:2009		
7.5	69 6555	Also meets or exceeds EN 455-1:2000, EN 455-2:2015, EN 455-3:2015 & EN 455-4:2009 relating to Council Directive 93/42/EEC for Medical Devices		
8.0	69 6556			
8.5	69 6557			
9.0	69 6558			
10.0	69 6559			

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**Material:** Synthetic soft nitrile polymer (Acrylonitrile Butadiene) with blend of polychloroprene, based on Skin Nitrile™ technology. Contains no natural rubber latex.

**Design:** Orange, hand-specific, beaded cuff, with textured palm and fingers.

**Packaging:** Packaging designed to comply with sterile processing environments. Gloves pair packed in a sealed polyethylene pouch. Twenty (20) pouches per sealed (double) poly bag. Ten (10) poly bags per double walled shipping case. Total of 200 pairs per outer case.

## PHYSICAL PROPERTIES

Characteristics	Value	Test Method
Freedom from holes	0.65 AQL <sup>1</sup>	EN 374:2003

<sup>1</sup> AQL as defined per ISO 2859 for sampling by attributes

Tensile Properties	Tensile Strength(min) Typical		Ultimate Elongation	EN 455-2:2015, ASTM D573-04(2015) and ASTM D412-15a
- Before Aging	6.0N,min.	7.0N	500%, min.	
- After Accelerated Aging	6.0N,min.	8.0N	400%, min..	

## PHYSICAL PROPERTIES (Continued)

Characteristics	Value			Test Method
<b>Dimensional</b>	Measured Point	mm	mil	
- Nominal Thickness	Middle Finger	0.15	5.9	ASTM D3767-03(2014)
	Palm	0.12	4.7	
	Cuff	0.09	3.5	
- Length	300mm, min.	305mm, typical		EN 420: 2003 + A1: 2009

## Hand Circumference

Nominal circumference	5.5	6	6.5	7	7.5	8	8.5	9	10	EN 420:2003 + A1:2009
(mm)	140	152	165	178	191	203	216	229	254	

## CLEANLINESS PROPERTIES

Particles					Test Method
		Specification		Typical value	
Particles	Per cm <sup>2</sup> ≥0.5µm	<3.000	particles	2.500	particles
					IEST-RP-CC005.4

Extractables						Test Method
Ion		Specification		Typical value		IEST-RP-CC005.4
Ammonium	NH <sub>4</sub>	0.150	ug/cm <sup>2</sup>	0.030	ug/cm <sup>2</sup>	
Bromide	Br	0.150	ug/cm <sup>2</sup>	0.050	ug/cm <sup>2</sup>	
Calcium	Ca	1.000	ug/cm <sup>2</sup>	0.800	ug/cm <sup>2</sup>	
Chloride	Cl	0.600	ug/cm <sup>2</sup>	0.450	ug/cm <sup>2</sup>	
Fluoride	F	0.090	ug/cm <sup>2</sup>	0.050	ug/cm <sup>2</sup>	
Magnesium	Mg	0.150	ug/cm <sup>2</sup>	0.050	ug/cm <sup>2</sup>	
Nitrate	NO <sub>3</sub>	0.600	ug/cm <sup>2</sup>	0.450	ug/cm <sup>2</sup>	
Potassium	K	0.150	ug/cm <sup>2</sup>	0.100	ug/cm <sup>2</sup>	
Sodium	Na	0.150	ug/cm <sup>2</sup>	0.050	ug/cm <sup>2</sup>	
Sulphate	SO <sub>4</sub>	0.600	ug/cm <sup>2</sup>	0.450	ug/cm <sup>2</sup>	

## ADDITIONAL DATA

- **Biocompatibility** demonstrated by Modified Buehler and Primary Skin Irritation Tests.
- **Non detectable levels of chemical allergens** using aqueous solution extraction (Phosphate buffered solution) and High Performance Liquid Chromatography (HPLC) assay method for quantitative analysis.
- **Accelerator-free** to minimize the risk of Allergic Contact Dermatitis (also known as Type IV, Delayed Hypersensitivity or Chemical Allergy).
- **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 "Medical gloves - Determination of removable surface powder").
- **Micro-organism and virus resistant** - passes highest level of micro-organism resistance per EN 374-2:2014 (Performance level 3, AQL <0.65 and inspection level G1 according to 1000ml water test) and passes viral penetration test using Phi-X 174 bacteriophage (ISO 16604:2004 Procedure B & ASTM F1671-97b).
- **Compatible with sterile processing environments** due to paperless packaging and multiple post leaching of gloves.
- **Terminally sterilized by gamma irradiation to Sterility Assurance Level (SAL) of 10<sup>-6</sup>**, in accordance with guidelines detailed in EN ISO 11137-2:2015 "Sterilization of Healthcare Products - Radiation".
- **Low Endotoxin content at <20 EU/pair (EN 455-3:2015)** demonstrated by Limulus Amoebocyte Lysate (LAL) kinetic turbidimetric test.
- **FTIR:** non detectable levels of silicone, amide and DOP (IEST-RP-CC005.4).
- **NVR:** maximum 30mg/g (IEST-RP-CC005.4).
- **Tested for electrostatic properties** according to EN 1149-1/2/3 & 5.
- **Extensively tested for chemical permeation** according to EN 16523-1:2015 (please refer to chemical resistance guide on website - [www.shieldscientific.com/public/chemical-resistance-guide](http://www.shieldscientific.com/public/chemical-resistance-guide)).

## QUALITY SYSTEMS

- Manufactured in accordance with ISO 9001:2015 and ISO 13485:2016.

"SHIELDskin™, A revolution in Glove Technology"



[www.shieldscientific.com](http://www.shieldscientific.com)

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