



Powder Free Extra Length, extra DI washed Hand-specific Sterile 33 cm Natural Rubber Latex 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 5761	EN 374 :2003 	EN 374:2003  Level 3		
6.0	69 5762				
6.5	69 5763				
7.0	69 5764	EN 420:2003 + A1:2009			
7.5	69 5765	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 5766				
8.5	69 5767				
9.0	69 5768				
10	69 5769				

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**Material:** Natural Rubber Latex. Contains 50 micrograms or less of total water extractable protein per gram, using the EN 455-3:2015 / ASTM D5712-15 Modified Lowry Method. Typical measurements for latex protein are  $\leq 30\mu\text{g/g}$  as per Modified Lowry Method.

**Design:** Natural colour, hand-specific, beaded cuff and textured palm.

**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 D 412-15a
- Before Aging	10.0N, min.	>10.0N	700%, min.	
- After Accelerated Aging	7.5N, min.	>7.5N	500%, min.	

## PHYSICAL PROPERTIES (Continued)

Characteristics	Value			Test Method
<b>Dimensional</b>	<b>Measured Point</b>	<b>Mm</b>	<b>mil</b>	
- Nominal Thickness	Middle Finger	0.20	7.9	ASTM D3767-03(2014)
	Palm	0.18	7.1	
	Cuff	0.13	5.1	
- Length	330mm, min.	335mm, 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	<1.200 particles	950 particles	IEST-RP-CC005.4

Extractables						Test Method
Ion		Specification		Typical value		IEST-RP-CC005.4
Ammonium	NH <sub>4</sub>	0.100	ug/cm <sup>2</sup>	0.030	ug/cm <sup>2</sup>	
Bromide	Br	0.050	ug/cm <sup>2</sup>	0.010	ug/cm <sup>2</sup>	
Calcium	Ca	0.500	ug/cm <sup>2</sup>	0.250	ug/cm <sup>2</sup>	
Chloride	Cl	0.750	ug/cm <sup>2</sup>	0.600	ug/cm <sup>2</sup>	
Fluoride	F	0.050	ug/cm <sup>2</sup>	0.010	ug/cm <sup>2</sup>	
Magnesium	Mg	0.050	ug/cm <sup>2</sup>	0.010	ug/cm <sup>2</sup>	
Nitrate	NO <sub>3</sub>	0.400	ug/cm <sup>2</sup>	0.250	ug/cm <sup>2</sup>	
Nitrite	NO <sub>2</sub>	0.050	ug/cm <sup>2</sup>	0.010	ug/cm <sup>2</sup>	
Phosphate	PO <sub>4</sub>	0.050	ug/cm <sup>2</sup>	0.010	ug/cm <sup>2</sup>	
Potassium	K	0.100	ug/cm <sup>2</sup>	0.050	ug/cm <sup>2</sup>	
Sodium	Na	0.050	ug/cm <sup>2</sup>	0.015	ug/cm <sup>2</sup>	
Sulphate	SO <sub>4</sub>	0.100	ug/cm <sup>2</sup>	0.050	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.
- **Thiuram and Thiazole free** - these chemical accelerators are excluded from the manufacturing process.
- **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  $10^{-6}$** , 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).
- **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"



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