



SHIELDskin XTREME™

White Nitrile 300 DI

Powder Free cleanroom laundered Ambidextrous Non-Sterile 30 cm Nitrile Gloves

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

Fully compliant to the latest PPE norms - EN374:2003 “Protective gloves against chemicals and micro-organisms”

PRODUCT INFORMATION

Size	Catalogue Numbers	Applicable Norms with Pictograms		
Extra Small (XS/6)	69 8451	EN374-1: 2003	EN374-2: 2003	
Small (S/7)	69 8452			
Medium (M/8)	69 8453			
Large (L/9)	69 8454			
Extra Large (XL/10)	69 8455	EN420: 2003		
Extra Extra Large (XXL/11)	69 8456	Also meets or exceeds EN455-1, 2 & 3:2000 relating to Council Directive 93/42/EEC for Medical Devices		

* TÜV Produkt Service, Ridlestrasse 3, D-80339 München, Germany

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

Design: White, ambidextrous, beaded cuff, with textured finger tips

Packaging: One hundred gloves (100) per inner poly bag. Packaging designed to comply with cleanroom environments processes. Gloves are flat-packed. Ten (10) poly bags per inner bag. Packed per 10 poly bags in a double-walled shipping case.

PHYSICAL PROPERTIES

Characteristics	Value	Test Method
Freedom from holes	1.5 AQL ¹	EN374-2: 2003

¹ AQL as defined per ISO 2859 for sampling by attributes

Tensile Properties	Tensile Strength(min)	Ultimate Elongation	
- Before Aging	14 Mpa min.	500%, min.	EN455-2: 2000, ASTM D573-04 and ASTM D 412-06a
- After Accelerated Aging	14 Mpa min.	400%, min.	

PHYSICAL PROPERTIES (Continued)

Characteristics	Value			Test Method
- Nominal Thickness	Middle Finger	0.15	5.9	ASTM D 3767
	Palm	0.13	5.1	
	Cuff	0.10	3.9	
- Length	285mm, min.	300mm, typical		EN420:2003

Palm Width

Nominal Width (mm)	XS/6	S/7	M/8	L/9	XL/10	XXL/11	EN455:2000
	≤80	85	95	105	115	≥120	

Hand Circumference

Nominal Circumference (mm)	XS/6	S/7	M/8	L/9	XL/10	XXL/11	EN455:2000
	152	178	203	229	254	279	

CLEANLINESS PROPERTIES

Particles		Test Method
Size	Nominal value	
Particles ≥0.5µm	<2.000	IEST-RP-C005.3

Extractables				Test Method	
Ion		Specification		Typical value	
Ammonium	Nh	0.090	ug/cm ²	0.050	ug/cm ²
Bromide	Br	0.090	ug/cm ²	0.050	ug/cm ²
Calcium	Ca	1.000	ug/cm ²	0.800	ug/cm ²
Chloride	Cl	0.400	ug/cm ²	0.350	ug/cm ²
Fluoride	F	0.090	ug/cm ²	0.050	ug/cm ²
Magnesium	Mg	0.090	ug/cm ²	0.050	ug/cm ²
Nitrate	No ₃	0.300	ug/cm ²	0.250	ug/cm ²
Potassium	K	0.150	ug/cm ²	0.100	ug/cm ²
Sodium	Na	0.090	ug/cm ²	0.050	ug/cm ²
Sulfate	So	0.600	ug/cm ²	0.500	ug/cm ²

IEST-RP-CC005.3

ADDITIONAL DATA

- FTIR: non detectable levels of silicone, amide and DOP (IEST-RP-C0005.3)
- Surface Resistivity: $10^8 - 10^{10} \Omega/\text{sq.}$ (ASTM D257-93)
- Free of Thiazoles and Dithiocarbamates - these chemical accelerators are excluded from the manufacturing process
- NVR: maximum 30mg/g (IEST-RP-C0005.3)
- Non detectable levels of chemical accelerators using aqueous solution extraction (Phosphate buffered solution) and High Performance Liquid Chromatography (HPLC) assay method for quantitative analysis
- 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 (ASTM D6124-06)
- Micro-organism and virus resistant - passes highest level of micro-organism resistance per EN374-2: 2003 (Performance level 2, AQL <1.5 and inspection level G1 according to 1000ml water test)
- Biocompatibility demonstrated by Modified Buehler and Primary Skin Irritation Tests

QUALITY SYSTEMS

- Manufactured in accordance with ISO 9001:2000 and ISO 13485:2003

“SHIELDskin™, A revolution in Glove Technology”



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