

# Valutek Nitrile Powder-free 12" Glove



**Description:** Valutek nitrile powder-free ambidextrous 12" glove is constructed from 100% clean synthetic nitrile polymer and contains no rubber latex, fillers or silicones. This glove comes with beaded cuff and a textured fingertip design. Our specially formulated, high modulus nitrile provides unmatched operator comfort and dexterity. Packaged in a cleanroom, all Valutek gloves are tested and manufactured in ISO compliant facilities under Valutek inspection and strict process control to ensure Valutek quality standards and product specifications.

- Features:**
- 100% clean and synthetic nitrile polymer (Acrylonitrile Butadiene)
  - Accelerator and sulfur free
  - Contains no fillers, silicones or plasticizers
  - 12"/290 mm length with beaded long cuff
  - Textured fingertips
  - Powder-free, double chlorination and DI water rinse
  - ESD compliant, acid and solvent compatible

**Application:** As part of the **Valutek Microtek product family**, this cleanroom packaged glove is recommended for use in a cleanroom Class 100-1,000 (ISO 5-6) critical environment. It is also commonly used in a wide variety of applications, including semiconductor, pharmaceutical, food handling, laboratory work, electronic, intricate parts handling and maintenance and cleanup.

## VTGNPFB12 Packaging



- Outer bag contains inner bag with 2 stacks of 50 gloves. Gloves packaged cuffs on bottom, vacuum sealed, flat packed and with a carton liner. 100 ea/bag, 10 bags/case, 1000 ea/case.
- Critical environment compatible. All gloves are lot traceable with retention samples held in Quality Control for 36 months from date of manufacturing.

## Valutek Nitrile Powder-free 12" Glove

Part Number: VTGNPFB12



## VTGNPFB12 Physical Properties

Part Number	Size	Palm Width (mm)	Weight (gm)	Length (inch/mm)	Test Method
VTGNPFB12-XS	XS	75 ± 5	5.5 ± 0.2	12"/290	IEST-RP-CC005.4 ASTM D3767
VTGNPFB12-SM	SM	85 ± 5	6.0 ± 0.2		
VTGNPFB12-MD	MD	95 ± 5	6.5 ± 0.2		
VTGNPFB12-LG	LG	105 ± 5	7.0 ± 0.2		
VTGNPFB12-XL	XL	115 ± 5	7.5 ± 0.2		
VTGNPFB12-2X	2X	125 ± 5	8.0 ± 0.2		

Tensile Properties	Tensile Strength	Ultimate Elongation	Test Method	Measured Points	Thickness	Test Method
Before Aging	18 MPa, min	500%, min	ASTM D412	Fingertip	4.72 mil 0.12 mm, min	ASTM D3767
After Aging	16 MPa, min	450%, min		Palm	3.94 mil 0.10 mm, min	
				Cuff	3.15 mil 0.08 mm, min	

\*Barrier Integrity: AQL 1.5

## VTGNPFB12 Technical Performance

Attribute	Value	Units	Test Method
<b>Particle Counts</b>			
LPC: ≥0.5 µm	<2,000	particles/cm <sup>2</sup>	IEST-RP-CC005.4, Sec 16.4
<b>Non Volatile Residue (NVR)</b>			
DI Water	<2.0	µg/cm <sup>2</sup>	IEST-RP-CC005.4, Sec 17.2
IPA	<5.0	µg/cm <sup>2</sup>	IEST-RP-CC005.4, Sec 17.2
<b>FTIR</b>			
Silicone Oil, Amide, DOP	Not Detectable		IEST-RP-CC005.4, Sec 17.4

Extractable Counts (Ions)						
Sodium(Na)	<0.02	µg/cm <sup>2</sup>	Fluoride(F <sup>-</sup> )	<0.001	µg/cm <sup>2</sup>	IEST-RP-CC005.4, Sec 17
Potassium(K)	<0.02	µg/cm <sup>2</sup>	Bromide(Br)	<0.001	µg/cm <sup>2</sup>	
Calcium(Ca)	<0.50	µg/cm <sup>2</sup>	Phosphate(PO <sub>4</sub> <sup>3-</sup> )	<0.002	µg/cm <sup>2</sup>	
Magnesium(Mg)	<0.005	µg/cm <sup>2</sup>	Chloride(Cl <sup>-</sup> )	<0.60	µg/cm <sup>2</sup>	
Ammonium(NH <sub>4</sub> <sup>+</sup> )	<0.005	µg/cm <sup>2</sup>	Sulfate(SO <sub>4</sub> <sup>2-</sup> )	<0.20	µg/cm <sup>2</sup>	
Nitrate(NO <sub>3</sub> <sup>-</sup> )	<0.50	µg/cm <sup>2</sup>	Nitrite(NO <sub>2</sub> <sup>-</sup> )	<0.001	µg/cm <sup>2</sup>	
Lithium(Li)	<0.005	µg/cm <sup>2</sup>	Aluminium(Al)	<0.01	µg/cm <sup>2</sup>	
Zinc(Zn)	<0.10	µg/cm <sup>2</sup>	Iron(Fe)	0.005	µg/cm <sup>2</sup>	
Copper(Cu)	<0.0004	µg/cm <sup>2</sup>				

ESD Properties						
Electrostatic Decay	<5	seconds	Tribo Charge	<50	v	ANSI/ESD SP15.1
Surface resistivity	< 1 X 10	E11 Ω <sup>-2</sup>				



Gloves



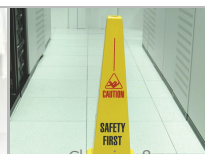
Wipers



Apparel



Adhesive Mats



Cleaning &amp; Maintenance



Documentation



Glove Liners



ESD