

Valutek Sterile Nitrile Cleanroom 12" Glove



Valutek's 12" ambidextrous sterile nitrile cleanroom glove is constructed from 100% synthetic nitrile polymer.

This glove contains no natural rubber latex, is silicone-free, and has a textured fingertip design with a beaded long cuff. This glove is packaged in a cleanroom-compatible plastic pouch.

All Valutek gloves are tested and are manufactured in ISO-compliant facilities, subject to Valutek inspection and stringent process control, ensuring compliance with Valutek quality standards and product specifications.

Part Number: VTGNCRBIR12

Features

- 100% clean and synthetic nitrile polymer (Acrylonitrile Butadiene)
- Accelerator and sulfur free
- Gamma irradiated
- 12"/290 mm length with beaded long cuff
- Textured fingertips
- Powder-free, double chlorination and 18 mega-ohm DI water rinse
- Low levels of particles and extractable counts
- ESD compliant, acid and solvent compatible

Application

As part of the **Valutek Nanotek product line**, this glove is packaged for cleanrooms and recommended for use in a **Class 1-10 (ISO 3-4)** critical environment.

It is also commonly used in sterile environments and industries that require exceptionally clean gloves, including pharmaceuticals, biotechnology, and medical device manufacturing.

Packaging



- 1 pair/pack, 10 pairs/master Pack, 20 master packs/case, 200 pairs/case
- Critical environment compatible.
- All gloves are **lot trace-able** with retention samples held in **Quality Control for 36 months** from the date of manufacturing.



Gloves



Wipers



Apparel



Adhesive Mats



Cleaning & Maintenance



Documentation



Glove Liners



ESD



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Part Number: VTGNCRBIR12

VTGNCRBIR12 Physical Properties

Part Number	Size	Palm Width (mm)	Weight (gm)	Length (inch/mm)	Test Method
VTGNCRBIR12-XS	XS	75 ± 5	5.5 ± 0.2		
VTGNCRBIR12-SM	SM	85 ± 5	6.0 ± 0.2		IENT-RP-CC005.4
VTGNCRBIR12-MD	MD	95 ± 5	6.5 ± 0.2	12"/290	ASTM D3767
VTGNCRBIR12-LG	LG	105 ± 5	7.0 ± 0.2		
VTGNCRBIR12-XL	XL	115 ± 5	7.5 ± 0.2		
VTGNCRBIR12-2X	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
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

VTGNCRBIR12 Technical Performance

Attribute	Value	Units	Test Method
Particle Counts			
LPC: 0.5 µm	<600	particles/cm ²	IENT-RP-CC005.4, Sec 16.4
Non Volatile Residue (NVR)			
DI Water	<2.0	µg/cm ²	IENT-RP-CC005.4, Sec 17.2
IPA	<5.0	µg/cm ²	IENT-RP-CC005.4, Sec 17.2
FTIR			
Silicone Oil, Amide, DOP	Not Detectable		IENT-RP-CC005.4, Sec 17.4

Extractable Counts (Ions)					
Sodium(Na)	<0.02	µg/cm ²	Fluoride(F ⁻)	<0.001	µg/cm ²
Potassium(K)	<0.02	µg/cm ²	Bromide(Br ⁻)	<0.001	µg/cm ²
Calcium(Ca)	<0.30	µg/cm ²	Phosphate(PO ₄ ³⁻)	<0.002	µg/cm ²
Magnesium(Mg)	<0.005	µg/cm ²	Chloride(Cl ⁻)	<0.20	µg/cm ²
Ammonium(NH ₄ ⁺)	<0.005	µg/cm ²	Sulfate(SO ₄ ²⁻)	<0.06	µg/cm ²
Nitrate(NO ₃ ⁻)	<0.12	µg/cm ²	Nitrite(NO ₂ ⁻)	<0.001	µg/cm ²
Lithium(Li)	<0.005	µg/cm ²	Aluminium(Al)	<0.01	µg/cm ²
Zinc(Zn)	<0.07	µg/cm ²	Iron(Fe)	<0.005	µg/cm ²
Copper(Cu)	<0.0004	µg/cm ²			

Endotoxin Level			
Limit: Max 20 EU/Glove	<0.2	EU/Glove	LAL Kinetic Turbidimetric, USP <85>
Limit: of Reporting (LOR) = 0.2 EU/Glove			

ESD Properties			
Electrostatic Decay	<5 seconds		
Surface Resistivity	<1 X 10E11 Ω ⁻²	Tribo Charge	<50 V
			ANSI/ESD SP15.1

*Note: Technical data listed reflects upper/lower limits. Certificates of Analysis available upon request for actual lot-to-lot test data. **36 month lot trend analysis** available upon request.



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