Valutek Ultra Thin Powder Free 12" Nitrile Glove

NanoTek
ISO 3-4 (Class 1-10)

Part Number: VTGNUTCRB12

Valutek's ultra thin 12"ambidextrous powder-free cleanroom nitrile glove is constructed from 100% clean synthetic nitrile polymer and contains no rubber latex.

This glove has a textured fingertip and a beaded long cuff design which offers the ultimate cleanliness and operator dexterity with very low levels of particle and extractable counts.

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.

Features

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

Application

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

It is also recommended for use in a wide variety of applications that demand an exceptionally clean glove, such as wafer fabrication, disk drives, semiconductor manufacturing, biotechnology, non-aseptic pharmaceutical production, and optics.

Packaging

- The 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 trace-able** with retention samples held in **Quality Control for 36 months** from the date of manufacturing.

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VTGNUTCRB12 Physical Properties

Part Number	Size	Palm Width (mm)	Weight (gm)	Length (inch/mm)	Test Method
VTGNUTCRB12-XS	XS	70 ± 10	3.5 ± 0.2		
VTGNUTCRB12-SM	SM	80 ± 10	4.0 ± 0.2		IEST-RP-CC005.4
VTGNUTCRB12-MD	MD	95 ± 10	4.5 ± 0.2	12"/290 mm	ASTM D6319
VTGNUTCRB12-LG	LG	110 ± 10	5.0 ± 0.2		
VTGNUTCRB12-XL	XL	120± 10	5.6 ± 0.2		

Tensile Properties	Tensile Strength	Ultimate Elongation	Test Method
Before Aging	14 MPa, min	500%, min	ASTM D6319
After Aging	14 MPa, min	400%, min	

Measured Points	Thickness		Test Method
Fingertip	3.54 mil	0.09 mm, min	ASTM D6319
Palm	2.75 mil	0.07 mm, min	
Cuff	1.96 mil	0.05 mm, min	

*Barrier Integrity: AQL 1.5

VTGNUTCRB12 Technical Performance

Attribute	Value	Units	Test Method
Particle Counts			
LPC: ≥0.5 µm	<800	particles/cm^2	IEST-RP-CC005.4, Sec 16.4
Non Volatile Residue (NVR)			
Total NVR	<30	mg/g	IEST-RP-CC005.4, Sec 17.2
FTIR			
Silicone Oil, Amide, DOP	Not Detectable		IEST-RP-CC005.4, Sec 17.4

Extractable Counts (Ions)

Sodium(Na)	<0.050	mg/g	Fluoride(F^-)	<0.001	mg/g	IEST-RP-CC005.4, Sec 17
Potassium(K)	<0.050	mg/g	Bromide(Br^-)	<0.001	mg/g	
Calcium(Ca)	<0.200	mg/g	Phosphate(PO_4^{3-})	<0.001	mg/g	
Magnesium(Mg)	<0.010	mg/g	Chloride(Cl^-)	<0.100	mg/g	
Ammonium(NH_4^+)	<0.050	mg/g	Sulfate(SO_4^{2-})	<0.050	mg/g	
Nitrate(NO_3^-)	<0.050	mg/g	Nitrite(NO_2^-)	<0.001	mg/g	
Lithium(Li)	<0.001	mg/g				

ESD Properties

Electrostatic Decay	<3 seconds	Tribo Charge	<150 V	ANSI/ESD SP15.1
Surface Resisitivity	10^9 - 10^{11} ohm/sq			

***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