



KIMTECH PURE* G3 NXT* Nitrile Gloves

Engineered for Protection. Designed for Comfort.



DATA PACK

Vital Process Protection and Comfort of Use

KIMTECH PURE* G3 NXT* Nitrile Gloves

KIMTECH PURE* G3 NXT* Nitrile Gloves offer a highly advanced protection of processes, helping you to reduce the risk of contamination.

- Recommended for ISO Class 3 or higher cleanroom environments
- Contain no natural rubber latex reducing the potential for TYPE I glove –associated reactions
- Textured fingertip
- Beaded cuff, for added strength and ease in donning
- Static dissipative in use
- Ambidextrous
- Double-bagged with case liner
- Certificate of Analysis (by Lot) available online
- Trend Data available online to demonstrate product quality over time

Whether there is the need for rigid contamination control in the class ISO 3-4 critical environment or class ISO 5-8 controlled environment, KIMBERLY-CLARK PROFESSIONAL* provides a complete line of gloves, masks, apparel and wipers to meet these needs.

All KIMBERLY-CLARK PROFESSIONAL* Products are manufactured to exacting quality standards. Our rigorous process controls ensure every product performs above and beyond the required class or grade for your cleanrooms and clean manufacturing facilities. We continually review our product lines through certification, validation, independent testing and, most importantly, customer satisfaction to ensure your most valuable assets – your processes, your people and your reputation, are protected.

EN374-2:2003



LEVEL 2

EN374-1:2003



0123



KIMTECH PURE* G3 NXT* Nitrile Gloves

Formerly SAFESKIN* NXT* Nitrile Gloves

Product Specifications

- Synthetic nitrile¹ polymer (Acrylonitrile Butadiene)
- Contains no natural rubber latex. Silicone-free

Quality Standards

- This is a PPE Category III product classified by EC Council Directive 89/686/EEC. It is tested in accordance with the EN Norms EN 420:2003
- Packaged in a Class 100 Cleanroom
- Meets or exceeds AQL level of 1.5 for pinholes
- Manufactured in accordance with Quality System ISO 9001

STATIC DISSIPATIVE
IN USE

LATEX-FREE

BEADED CUFF

AVAILABLE IN
30 CM LENGTH

TEXTURED
FINGERTIPS

¹ Nitrile is a synthetic material exhibiting many of the properties of natural rubber latex while offering other distinct advantages: comfortable fit, resistance to puncturing and abrasion without compromising dexterity or electrostatic dissipative properties.

PHYSICAL PROPERTIES (Target values)

Characteristics	Value	Test Method
Freedom from holes	1.5AQL ¹	ASTM D 5151 and EN 374-2
<small>¹ AQL as defined per ISO 2859-1 for sampling by attributes</small>		
Tensile Properties	Tensile Strength	Ultimate Elongation
- Before Aging	18 MPa, nominal	600% nominal
- After Accelerated Aging	20 MPa, nominal	600% nominal
Dimensional	Measured Point	mm
- Nominal Thickness	Middle Finger	0.16
	Palm	0.13
	Cuff	0.10
Palm Widths		
- Nominal Width (mm)	X-Small Small Medium Large Large plus X-Large	ASTM D 3767 and D 6319
	74 84 96 111 116 123	

KIMTECH PURE* G3 NXT* Nitrile Gloves

Size and Code	30 cm
	10x
XS	62990
S	62991
M	62992
L	62993
XL	62994
L+	62995
	100x
	= 1000

CLEANLINESS CHARACTERISTICS

Parameter	Limit	Test Method
Particles		
Per cm ² ≥ 0.5 micron	950	IEST-RP-CC005
Extractables	µg/g µg/cm ²	IEST-RP-CC005
Sodium (Na+)	5 0.03	
Ammonium (NH4+)	5 0.03	
Potassium (K+)	5 0.03	
Magnesium (Mg2+)	5 0.03	
Calcium (Ca2+)	50 0.33	
Chloride (Cl-)	35 0.23	
Nitrate (NO3-)	20 0.13	
Sulfate (SO42-)	10 0.07	

INFORMATION SERVICE

For technical enquiries please email infobox@kcc.com
For sales enquiries please email kimtech.support@kcc.com

www.kcprofessional.com

Visit our website and discover a brand new concept in cleanroom: the CONTAMINOMICS* Programme – www.contaminomics.com



Kimberly-Clark Corporation

Declaration of Conformity

Product:	KIMTECH* Pure G3 NXT* Nitrile	
Product Codes:	KC Code	Size
	62990	XS
	62991	S
	62992	M
	62993	L
	62995	L+
	62994	XL
Notified Body:	TUV Product Service (0123)	
Classification:	PPE Class III	
Applicable Norms:	Protective Gloves against Chemicals and Micro-Organisms (EN 374-1)	
	Protective Gloves against Mechanical Risks (EN 388)	
	General Requirements for Gloves (EN 420)	
EEC Representative:	Kimberly-Clark N.V.; Belgicastraat 13; 1930 Zaventem; Belgium	

Kimberly-Clark Corporation, Roswell, GA 30076-2199, USA declares that the new Personal Protective Equipment: Protective Gloves against Chemicals and Micro-Organisms, Model KIMTECH* Pure G3 NXT* Nitrile (Product Codes as aforementioned) is in conformity with the provisions of Council Directive 89/686/EEC and with the harmonized standard EN 420, EN 388 and EN 374-1/3. The device is identical to the Personal Protective Equipment, which is the subject of EC certificate of conformity N° P2 03 04 45160 004 issued by TUV Product Service GmbH, Munich, Germany. This device is subject to the procedure set out in Article 11 point B of Directive 89/686/EEC under the supervision of the Notified Body TUV Product Service, Munich (0123).

Intended Use:

The Glove shall protect the wearer against mechanical action whose effects are superficial; cleaning materials of weak action and easily reversible effects; risk encountered in the handling of hot components which do not expose the user to a temperature higher than 50 °C; minor impact and vibrations which do not effect vital areas of the body and whose effect cannot cause irreversible lesions; and is **not intended** for prolonged, direct exposure to harsh chemicals than stated.

These gloves are not intended for applications involving direct exposure to harsh chemicals, where heavy-duty industrial gloves are required. Variability in material thickness and glove integrity, chemical concentration, temperature and length of exposure to chemicals will affect specific performance.

This declaration is valid for the above product in its original, unmodified, unopened and undamaged packaging of the smallest unit.

Kimberly-Clark Corporation

Dr. Holger Most
Regulatory Affairs Europe

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KIMTECH Pure G3

NXT* Nitrile Gloves 12" Ambidextrous

- EN White Nitrile Gloves** • 12"/30,5 cm Length • Ambidextrous • For Industrial Use Only
- FR Gants en nitrile blancs** • Longueur 12"/30,5 cm • Ambidextres • Pour usage industriel uniquement
- DE Weiße Nitril-Handschuhe** • 12"/30,5 cm Länge • Beidhändig tragbar • Nur für den industriellen Gebrauch
- BG Бели нитрилни ръкавици** • 12"/30,5 cm дължина • Стават и на двете ръце • Само за промишлена употреба
- ES Guantes de nitrilo blanco** • 12"/30,5 cm de largo • Ambidiestros • Sólo para uso industrial
- FR Bille nitrilové rukavice** • Délka 12"/30,5 cm • Na obě ruce • Pouze pro průmyslové použití
- DA Hvide nitrilhandsker** • 12"/30,5 cm lange • Til begge hænder • Kun til industribrug
- ET Valged nitrilkindad** • Pikkus 12"/30,5 cm • Mõlemakäelised • Ainult tööstuslikuks kasutuseks
- EL Άσπρα γάντια νιτριλίου** • Μήκος 12"/30,5 cm • Αμφιδέξια • Για βιομηχανική χρήση μόνο
- FI Guanti in nitrile bianchi** • Lunghezza 12"/30,5 cm • Ambidestri • Esclusivamente per uso industriale
- LV Balti nitrila cimdi** • 12"/30,5 cm gari • Vienādi ērti abām rokām • Tikai industriālai lietošanai
- LT Baltos nitrilo pirštines** • 12"/30,5 cm ilgio • Abirankės • Tik pramoniniam naudojimui
- HU Fehér nitrilkesztyű** • 12"/30,5 mm hosszú • Kétkezes • Csak ipari használatra
- NL Witte nitrile handschoenen** • 12"/30,5 cm lang • Aan beide handen te dragen • Uitsluitend voor industrieel gebruik
- NO Hvide nitrilhansker** • 12"/30,5 cm lange • Tilpasset hver hånd • Kun for industribruk
- PL Białe rękawice nitylowe** • Długość 12"/30,5 cm • Oburęczne • Tylko do użytku przemysłowego
- PT Luvas de nitrilo brancas** • 12"/30,5 cm de comprimento • Ambidextras • Somente para uso industrial
- RO Mănuși albe de nitril** • 12"/30,5 cm lungime • Ambidextre • Numai pentru uz industrial
- RU Белые нитриловые перчатки** • Длина 12"/30,5 см • На любую руку • Только для промышленного применения
- SK Biele nitrilové rukavice** • Dĺžka 12"/30,5 cm • Na obidve ruky • Len na priemyselné použitie
- SL Bele nitrilne rokavice** • 12"/30,5 cm dolge • Za obe roki • Samo za industrijsko uporabo
- FI Valkoisia nitrilikäsineitä** • Pituus 12"/30,5 cm • Sopivat molempiin käsiin • Vain teolliseen käyttöön
- SV Vita handskar av nitril** • 12"/30,5 cm långa • Ej handspecifika • Endast för industriellt bruk
- TR Beyaz Nitril Eldivenler** • 12"/30,5 cm uzumluğunda • İki Ele de Uyumlu • Sadece endüstriyel kullanım içindir
- JA ニトリル手袋(白)** • 長さ 30,5 cm • 両手用・産業用途専用

Formerly
SAFESKIN
NXT



- EN Single Use Only**
Usage unique seulement
Nur zur einmaligen Verwendung
Use una sola vez
Solo único
一回限りの使用
- FR Attention: See Insert**
Attention: Voir insert
Achtung: Siehe Packungsbeilage
Aviso: Ver hoja insertada
Atenção: Consultar a literatura inclusa
インサートをご覧下さい



- EN Keep Dry**
Conserver au sec
Trocken halten
Mantener secos
乾燥した所に保管して下さい

Protect from Heat and Radioactive Sources
Protéger des sources de chaleur et radioactives
Vor Hitze und radioaktiven Strahlen schützen
Proteger del calor y de las fuentes de radioactividad
Proteger contra o calor e fontes de radioactividade
熱や放射線源のものから保護して下さい

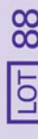
EN Tested for Watertightness and Low Chemical Protection
Testés pour étanchéité à l'eau et faible protection chimique
Geprüft auf Wasserfestigkeit und geringen Schutz gegen Chemikalien
Sométicos a pruebas de impermeabilidad y protección contra sustancias químicas leves
Comprovadas contra a estanqueidade a água e protecção contra produtos químicos fracos
水密性および低度化学薬品性を検査済

EN Tested for Microorganism Hazards
Testés pour les risques causés par les microorganismes
Geprüft für Gefahren durch Mikroorganismen
Sométicos a pruebas contra riesgos presentados por microorganismos
Comprovadas contra perigos apresentados por microorganismos
微生物危険性のテスト済み

Manufactured by Kimberly-Clark, Roswell, GA 30076 USA
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Made in Thailand

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製造番号



Expiration Date
使用期限

www.kcprofessional.com

Kimberly-Clark
Professional*



CE
0123
EN420
AQL 1,5 G1

Test Method for Analyzing Liquid Particle Counts

This test method is used to analyze the mobile particle contaminants from cleanroom gloves.

1. Scope

- 1.1. The test method covers the average particulate contamination found on gloves designated for cleanroom applicability.
- 1.2. The average contaminant concentration will be reported in particles per cm² in two ways:
 - 1.2.1. By size grouping, 0.5 to 1.0 microns, 1.0 to 2.0 microns, 2.0 to 5.0 microns, 5.0 to 10.0 microns, 10.0 to 20.0 microns, greater than 20.0 microns, and a total particle count greater than 0.5 microns.
 - 1.2.2. Statistical analysis of each grouping consisting of Minimum Value, Maximum Value, Standard Deviation, and Average Value, for each group of individual gloves.
- 1.3. The safe and proper use of gloves is beyond the scope of this test method.
- 1.4. This test method does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this Test Method to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

- 2.1. IEST-RP-CC005.3 Recommended Practice for Gloves and Finger Cots Used in Cleanrooms and Other Controlled Environments
- 2.2. Work Instruction

3. Apparatus

- 3.1. Analytical Balance, capable of readability and repeatability to 0.1 mg
- 3.2. Particle Measuring Systems CLS-900 Liquid Particle Counting System
- 3.3. 2000 mL glass beaker or 1000mL glass conical flask
- 3.4. Stainless Steel Forceps, 10" length
- 3.5. 250 ml Volumetric Flask
- 3.6. 500 ml Volumetric Flask
- 3.7. High Purity Deionized Water System, capable of producing 18.2 MOhm quality water
- 3.8. Point of Use Filter, 0.2 micron size
- 3.9. Orbital Shaker, 3/4" orbit, capable of 200 rpm
- 3.10. Circular Die, 1.5 inch diameter, calibrated

4. Procedure

- 4.1. Test Preparation
 - 4.1.1. Prior to extraction, all Erlenmeyer flasks will be cleaned no less than five times with high purity deionized water filtered to 0.2 microns at point of use.
 - 4.1.2. All related equipment (forceps, volumetric flasks, etc.) must be rinsed with high purity deionized water prior to use.
- 4.2. Extraction
 - 4.2.1. Randomly pull a glove from the package.
 - 4.2.2. Place glove finger-first into the one liter Erlenmeyer flask and hold open by cuff using the rinsed forceps.
 - 4.2.3. Empty into the inside of the glove 500 ml high purity filtered deionized water.
 - 4.2.4. Allow the glove to settle into the Erlenmeyer flask.
 - 4.2.5. Place an additional 250 ml high purity filtered deionized water over the glove within the Erlenmeyer flask.
 - 4.2.6. Allow the Erlenmeyer flask with glove to agitate on the shaker for 10 minutes \pm 10 seconds at a rate of 150 rpm \pm 10 rpm.
 - 4.2.7. Using clean tongs, immediately remove the glove from the container. Drain any trapped liquid into the beaker by manipulating the fingers on the glove, with the tongs
 - 4.2.8. Dispose of the glove.
 - 4.2.9. Repeat the extraction two additional times to complete the set.
 - 4.2.10. Prepare a process blank, using all the steps in section 4.2, without placing the glove in the Erlenmeyer flask.

4.3. Measurement

4.3.1. Follow the Work Instruction for the Liquid Particle Counter for analyzing the solutions.

4.4. Glove Surface Area

4.4.1. Pull three gloves from the production package and weigh to the nearest 0.1 mg.

4.4.2. Record as A.

4.4.3. Cut the 3 gloves with square die (5X5 cm.) by wheel cutter at palm. This will give you six cut-out sections.

4.4.4. Weight the six cut-out sections. Record this as B.

4.4.5. Calculate the surface area of the glove using the following equation :

$$\frac{A \times 5 \times 5 \times 4}{B}$$

5. Calculations

5.1. Calculate counts/cm² by channel size using the following equation:

$$\frac{(\text{Sample (counts/mL)} - \text{Blank (Counts/mL)}) \times \text{Extraction volume (mL)} \times \text{DF}}{\text{Surface area (in cm}^2\text{)}}$$

5.2. Total Counts/cm² : = \sum *AllChannelSizes*

6. Reporting

6.1. The final report should include the Lot Number, Batch number, Product Description, Part Number, and any other pertinent information about the sample, as well as the final calculated counts/cm² by channel size and a total counts/cm² greater than 0.5 microns.

6.2. Statistics will be calculated and reported on sample sizes greater than three.

Test Method for Analyzing Extractables

This test method is used to analyze the soluble ionic extractable contaminants from cleanroom gloves.

1. Scope

- 1.1. The test method covers the average ionic contamination found on gloves designated for cleanroom applicability.
- 1.2. The average contaminant concentration will be reported in one of two ways:
 - 1.2.1. Micrograms of ionic contaminant per gram of glove weight (ug/g), also described as ppm.
 - 1.2.2. Micrograms of ionic contaminant per square centimeter of glove area (ug/cm²)
- 1.3. This test method does not cover contaminants that are insoluble in water, or organic macromolecules.
- 1.4. The safe and proper use of gloves is beyond the scope of this test method.
- 1.5. This test method does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this Test Method to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

- 2.1. IEST-RP-CC005.2 Recommended Practice for Gloves and Finger Cots Used in Cleanrooms and Other Controlled Environments.
- 2.2. Work Instruction WI 10-05-26, Work Instruction for Performing Ion Chromatography Analysis of Gloves

3. Apparatus

- 3.1. Analytical Balance, capable of readability and repeatability to 0.1 mg
- 3.2. Ion Chromatograph
- 3.3. Extraction Containers, 1 liter capacity, HDPE with screw type lids
- 3.4. Stainless Steel Forceps, 10" length
- 3.5. 500 ml Volumetric Flask
- 3.6. High Purity Deionized Water System, capable of producing 18.0 MOhm quality water
- 3.7. Point of Use Filter, 0.1 micron size
- 3.8. Circular Die, 1.5 inch diameter, calibrated

4. Procedure

4.1. Test Preparation

- 4.1.1. Prior to extraction, all extraction containers will be cleaned using high purity deionized water high purity deionized water filtered to 0.2 microns at point of use.
- 4.1.2. All related equipment (forceps, volumetric flasks, etc.) must be rinsed with high purity de-ionized water prior to use.

4.2. Extraction

- 4.2.1. Randomly pull a glove from the package.
- 4.2.2. Place glove finger-first into the one liter Erlenmeyer flask and hold open by cuff using the rinsed forceps.
- 4.3. Empty into the inside of the glove approximately 250 ml high purity filtered deionized water.
- 4.4. Allow the glove to settle into the extraction container.
- 4.5. Pour remaining 250 ml high purity filtered deionized water over the glove within the extraction container.
- 4.6. Place the lid upon the container and seal tightly.
- 4.7. Gently swirl the container to ensure that all surfaces of the glove are wetted.
- 4.8. Allow the glove to extract in the deionized water for at least 10 minutes, but no longer than 11 minutes.
- 4.9. Remove the glove by the fingers, allowing most of the water trapped in the fingers to drain back in to the extraction container.
- 4.10. Dispose of the glove.
- 4.11. Repeat extraction two additional times to complete the set.
- 4.12. Prepare a sample blank, using all the steps in section 2, without placing the glove in the extraction container.

4.13. Measurement

4.13.1. Follow the guidelines for the Ion Chromatograph for analyzing aqueous solutions.

4.14. Glove weight and surface area

4.14.1. Pull three gloves from the production package and weigh to the nearest 0.1 mg.

4.14.2. Record as A.

4.14.3. Cut the 3 gloves with square die (5X5 cm.) by wheel cutter at palm. This will give you six cut-out sections.

4.14.4. Weight the six cut-out sections. Record this as B.

4.14.5. Calculate the surface area of the glove using the following equation :

$$\text{Surface area} = \frac{A \times 5 \times 5 \times 4}{B}$$

5. Calculations

5.1. Once the data output from the Chromatograph has been reviewed for errors, calculate the following:

$$5.1.1. \text{ ug/g (ppm) contamination: } = \frac{(\text{AnalyteConc.}) * (500\text{ml})}{\text{GloveWeight}}$$

$$5.1.2. \text{ ug/cm}^2 \text{ contamination: } = \frac{(\text{AnalyteConc.}) * (500\text{ml})}{\text{SurfaceArea}}$$

6. Reporting

6.1. The final report should include the Lot number, Batch number, Product description, Part number, and any other pertinent information about the sample, as well as the final calculated contaminant concentration in ug/g and ug/cm².