

KIMTECH PURE* G3 White Nitrile Gloves

Engineered for Protection. Designed for Comfort.







Vital Process Protection and Comfort of Use

KIMTECH PURE* G3 White Nitrile Gloves

KIMTECH PURE* G3 White 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
- · Beaded cuff, for added strength and ease in donning
- · Textured fingertip
- · 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.









KIMTECH PURE* G3 White Nitrile Gloves Formerly SAFESKIN* Critical 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



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		
¹ AQL as defined per ISO 2859-1 for sampling by attributes								
Tensile Properties	Tensile :	Strength		Ultimate	Elongation			
- Before Aging	24 MPa,	nominal		600% no	minal	ASTM D 412 and ASTM D 573		
- After Accelerated Aging	20 MPa,	nominal		600% no	minal			
Dimensional	Mea	sured	mm					
	Poin	t						
- Nominal Thickness	Midd	lle Finger	0.16			ASTM D 3767 and D 6319		
	Palm	Palm Cuff						
	Cuff							
Palm Widths								
- Nominal Width (mm)	X-Small	Small	Medium	Large	X-Large	ASTM D 3767 and D 6319		
	74	84	96	111	123			

KIMTECH PURE* G3 White Nitrile Gloves

Size ar	nd Code	30 cm		
		10x		
XS S M	HC61010 HC61011 HC61012 HC61013	100x		
XL	HC61014	= 1000		

CLEANLINESS CHARACTERISTICS

Parameter	Limit		Test Method
Particles			
Per cm² ≥ 0.5 micron		950	IEST-RP-CC005
Extractables	μg/g	μg/cm²	IEST-RP-CC005
Sodium (Na+)	10	0.07	
Ammonium (NH4+)	5	0.03	
Potassium (K+)	5	0.03	
Magnesium (Mg2+)	5	0.03	
Calcium (Ca2+)	45	0.30	
Chloride (CI-)	35	0.23	
Nitrate (NO3-)	15	0.10	
Sulfate (SO42-)	10	0.07	
Zinc (Zn2+)	25	0.17	

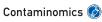
INFORMATION SERVICE

For technical enquiries please email infofax@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 –







CERTIFICATE OF ANALYSIS

Product Description: KIMTECH PURE*G3 White Nitrile Gloves, 12" Ambi

(Formerly SAFESKIN* Critical Nitrile)

Catalog Numbers: HC61010, HC61011, HC61012, HC61013, HC69478, HC61014

Lot #: 410191 Total Cases per Lot: 571 Batches: SM902904X to SM903102X Date of Manufacture: Jan-09

Physical Test Data								
			Visual Defects		Elongation (%)	Tensile (MPa)		
	Watertight	Dimensions	Minor	Major	Pre Aging	Pre Aging		
Sample Size:	1790	180	1790	1790	120	120		
AQL Level:	1.5	2.5	4.0	2.5	2.5	2.5		
Failures Allowed per AQL:	44	9	104	68	6	6		
Failures:	0	0	0	0	0	0		
Inspection Results:	Accept	Accept	Accept	Accept	Accept	Accept		
.		-		Averages	769	20.4		

Test Methods: Watertight ASTM D 5151, Elongation and Tensile ASTM D 412

Particle Test Data

Particle Size (µm)	Min	Max	Standard Deviation	Average Particles/cm²
0.5 - 1.0	65	357	103	199
1.0 - 2.0	6	104	25	26
2.0 - 5.0	1	15	4	5
5.0 - 10.0	0	1	0	0
10.0 - 20.0	0	0	0	0
>20	0	0	0	0
Total per Sample	89	386	116	231

Test Method: IEST-RP-CC005

			Extractable I	on Test Data				
	Anions Results							
	Fluoride	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate	
	F.	CI ⁻	N0 ₂ -	Br ⁻	N0 ₃ -	P0 ₄ -3	S0 ₄ -2	
μg/g glove	<0.5	12.1	<2.5	<2.5	3.8	<5	<2	
μg/cm ²	< 0.003	0.075	<0.016	<0.016	0.024	<0.031	< 0.013	
. •		Cations Results				Trace Element R	lesults	
	Sodium	Ammonium	Potassium	Magnesium	Calcium	Zinc	<u>_</u>	
	Na [⁺]	NH_4^{\dagger}	K⁺	Mg ⁺²	Ca ⁺²	Zn		
μg/g glove	0.8	0.5	1.0	0.3	14.8	1.6		
μg/cm²	0.005	0.003	0.006	0.002	0.091	0.010		

Test Method: IEST-RP-CC005

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Review By: Conn. B, (QA Executive - SSMT)

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Declaration of Conformity

Product: KIMTECH* Pure G3 Nitrile

Product Codes: KC Code

HC61010

HC61010 XS HC61011 S HC61012 M HC61013 L HC61014 XL

Size

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 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

Kimberly Clark Corporation; 1400 Holcomb Bridge Road, Roswell,GA 30076-2199, U.S.A. Phone: +31 76 5716 497 Fax: +31 84 2220 589

KIMTECH 63

White Nitrile Gloves 12" Ambidextrous

Ambidextrous . For Industrial Use Only . For Minimal White Nitrile Gloves • 12"/30.5 cm Length • Risks Only

 Baltos nitrilo pirštinės • 12"/30,5 cm ilgio • Abirankės (iii) Fehér nitrilkesztyű • 12730,5 cm hosszú • Kétkezes •

Tik pramoniniam naudojimui • Suteikia tik minimalia

Csak ipari használatra • Csak minimális kockázatokhoz

 Witte nitrile handschoenen • 12"/30,5 cm lang • industrieel gebruik • Uitsluitend voor minimaal risico

Aan beide handen te dragen • Uitsluitend voor

Ambidextres • Pour usage industriel uniquement • Pour ⊕ Gants en mitrile blancs • Longueur 12"/30,5 cm • risones minimaux uniquement

Beidhändig tragbar • Nur für den industriellen Gebrauch S Weiße Nitril-Handschuhe • 30,5 cm Länge •

Бели нитрилни ръкавици • 12/30,5 си дължина • Nur für minimale Risiken

употреба • За поизване само в среди с минимален рисх ® Guantes de mitrilo blanco • 30,5 cm (12 pulg.) de largo • Ambidiestros • Sólo para uso industrial • Sólo Стават и на двете ръце • Само за промишлена para riesgos mínimos

Obureczne • Tylko do użytku przemysłowego • Tylko do

hver hand . Kun for industribruk . Kun for lav risiko Białe rękawice nitrylowe • Długość 30,5 cm •

> Bilé nitrillové rukavice • Délka 30,5 cm/12 palci • Na obě ruce • Pouze pro průmyslové použítí • Pouze pro

Numai pentru uz industrial • Numai pentru riscuri minime

Manuşi albe de nitril • 30,5 cm lungime • Ambidextre В Белые нитриповые перчатки • Длина 12/30,5 см

comprimento · Ambidexdras · Somente para uso

€ Luvas de nitrilo brancas • 12"/30,5 cm de industrial . Sómente para riscos mínimos

minimalnych zagrożeń

D Valued nitriilkindad • Pikkus 30,5 cm • Mölemakäelised Ainult tööstusikuks kasutuseks • Minimaalsete ohtude Mide nitrilhandsker • 30,5 cm lange • Til begge hænder • Kun til industribrug • Kun til minimal risiko mniman rzka

 Жотра уа́ута утрийои • Мукос 12"/30,5 ст • Αμφιδέξια • Για βιομηχανική χρήση μόνο • Μόνο για πηδαμινούς κινδύνους

© Guanti in nitrile bianchi • Lunghezza 30,5 cm/12" Ambidestri • Esclusivamente per uso industriale • Esclusivamente per livelli minimi di rischio abām rokām • Tikai industriālai lietošanai • Tikai minimāla

iska apstākiem

Balti nitrila cimdi • 12′30,5 cm gari • Vienādi ērti

Si Biele nitrillové rukavice • Dížka 30,5 cm/12 palcov • Na obi dve ruky • Len na priemyselné použíře • Len na применения • Только для минимальных рисков На лобую руку • Только для промышленного

 Bele nitriline rokavice • 12"30,5 cm dolge • Za na minimalne rizika

obe roki • Samo za industrijsko uporabo • Samo za minimalno tveganje

® Valkoiset nitriilikäsineet • Pituus 30,5 cm • Sopivat

molempiin kāsiin • Vain teollisuuskāvttöön • Vain pieniā

Víta handskar av nitril • 12/30,5 cm långa • Ej handspecifika • Endast för industriellt bruk • Endast för riskejā varten

ki Ele de Uvumlu • Sadece endüstriyel kullanım içindir •

③ ニトゾル手袋(白)・長さ30.5・両手用・ 産業用途専用・最小リスク用専用 Sadece asgari risk kullanımı içindir

Single Use Only Usage unique seulement Nur zur einmaligen Verwendung

Usese una sola vez Uso unico 再使用禁止

(S) Keep Dry
(S) Crocken halfen
(S) Mantener sector
(S) Mantener sector
(S) Askapping

Protect from Heat and Radioactive Sources Attention: See Insert
 Authung: Wie erlore
 Authung: See Packungsbeläge
 Authung: A

Protépa des sources de Chaleur et ratioactives
 Vor Hizze und ratioackiven Straffen schützen
 Proteage del cultor y de las Inemas de radioactividad
 Proteage contra o calor e formés de nadioactividade
 無差へん、及び放射機能

※

Tested for Watertightness and Low Chemical Protection

② Geprüff auf Wesserfestigkeit und geringen Schatz gegen Chemikalien 適 Someidots a grubebse de impremeabildad vyotektooln courtra sustancies quimicas leves ³⁰ Comprovadas contra a estanqueidade à égua a protocção contra produtos químicos fracos ³⁰ 永晋氏 ふくび氏表別 (子楽品 在を検査) Testés pour étanchérié à l'eau et faible protection chimique

® Tested for Microorganism Bazands

metidos a pruebas contra riescos presentados por microorganismos Geprüff ür Gefahren durch Mikroorganismen
 Schendides professionen in Besges presentades por microorgar
 Demprovadas contra pengos apresentades por microorganismos
 選生物合験性のテスト済み Testés pour les risques causés par les microorganismes Geprüft für Gefahren durch Mikroorganismen

ECREP Kimberly-Clark N.V., Belgicastraat 13, 1930 Zaventem, Belgium Roswell, 6A 30076 USA • USA • kimtech@kcc.com • 1-800-255-6401 Distributed in the U.S. by Kimberh-Clark Global Sales, Inc., Manufactured by Kimberly-Clark, Roswell, GA 30076 USA

Europe • infofax@kcc.com • +44(0) 1737 735000 Asia • +603 7807 8210

Made in Thailand

0123 EN420

AOL 1,5 G1

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LOT 41 製造番号

www.keprofessional.com

গ্রিষ্ট **Kimberly-Clark** Professional

















PMS 286

11/19/06 130176-02 330 mm(L) x 305 mm(W) x 255 mm(D)



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

- 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 ± 10 seconds at a rate of 150 rpm ± 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 cutout 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 :

5. Calculations

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

(Sample (counts/mL)-Blank (Counts/mL) x Extraction volume (mL) x DF Surface area (in cm²)

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

- 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 :

5. Calculations

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

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

5.1.2. ug/cm² contamination: =
$$\frac{(AnalyteConc.)^*(500ml)}{SurfaceArea}$$

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.