



## Kimberly-Clark\* Purple Nitrile\* Exam Gloves

### Put the Science of Protection to Work in Your Lab

Your employees are your most valuable asset. That's why they deserve the worry-free protection of Kimberly-Clark\* Purple Nitrile\* Exam Gloves. Our gloves guard against incidental splash exposure. The gloves are made of a highly durable nitrile polymer that eliminates the risks and costs associated with type 1 natural rubber latex allergies.

Kimberly-Clark\* Purple Nitrile\* Exam Gloves are the gloves of choice in leading labs because they are comfortable to wear and provide excellent tactile sensitivity. When users see the distinctive color purple, they know they can concentrate on the task at hand, protected from known and unknown risks.



### Smartpull\* Dispenser Box

*Smartpull\* dispensing incorporates 2 separate openings on the box. The first, smaller opening is used when the box is full and helps control dispensing to lessen waste from dropped gloves or multiple dispensing. When the box is half empty, the second, larger opening allows easier access to the gloves. In addition, the dispensing box also provides up to a 33% waste savings.*



## Kimberly-Clark\* Purple Nitrile\* Exam Glove Features and Specifications

- Latex-free, powder free
- Beaded cuff
- Ambidextrous
- Textured fingertips
- AQL 1.5
- 9.5" & 12" lengths
- Excellent dexterity and tactile sensitivity
- Comfortable fit
- Cleared for use in chemotherapy
- Available in Sterile and Non-Sterile
- Purple Nitrile-Xtra\* Exam Gloves meet NFPA Standards 1999: 2008

Product Specifications			Physical Properties	
<b>Gauge Thickness Measurements</b>	<b>MM</b>	<b>MIL</b>	<b>Before Aging</b>	
Middle Finger	.15	5.9	Tensile Strength	21 MPa
Palm	.12	4.7	Ultimate Elongation	550%
Cuff	.09	3.5	<b>After Aging</b>	
Average Length	242mm (9.5")		Tensile Strength	21 MPa
	XTRA* 305mm (12.0")		Ultimate Elongation	500%
Quality Standards				
Exceeds current ASTM 6319 standard for critical defects (AQL 2.5). AQL for critical defects is 1.5.				
Manufactured in accordance with Quality System ISO 9001.				

## Best Protection

When you're in the market for protection, turn to the proven leader. Kimberly-Clark\* Purple Nitrile\* Exam Gloves provide peace of mind for your lab personnel.

### Kimberly-Clark\* Purple Nitrile\* Exam Gloves

Description	Color	X-Small	Small	Medium	Large	X-Large	Gloves/Boxes	Total/Case
Kimberly-Clark* Purple Nitrile* Exam Gloves 9.5" Ambi	Purple	<b>55080</b>	<b>55081</b>	<b>55082</b>	<b>55083</b>	<b>55084</b>	100/10 (XL - 90/10)	1000 (XL - 900)
Kimberly-Clark* Purple Nitrile-XTRA* Exam Gloves 12" Ambi	Purple	<b>55090</b>	<b>50601</b>	<b>50602</b>	<b>50603</b>	<b>50604</b>	50/10	500

Specific chemical resistance data can be found at: [www.kc-safety.com/chemicalbarrierdata](http://www.kc-safety.com/chemicalbarrierdata)

### Kimberly-Clark\* Purple Nitrile\* Sterile Exam Gloves

Description	Color	Small	Medium	Large	Gloves/Boxes	Total/Case
Kimberly-Clark* Purple Nitrile* Sterile Single Exam Gloves 9.5" Ambi	Purple	<b>52101</b>	<b>52102</b>	<b>52103</b>	100/4	400
Kimberly-Clark* Purple Nitrile* Sterile Pairs Exam Gloves 9.5" Ambi	Purple	<b>55091</b>	<b>55092</b>	<b>55093</b>	50 pairs/4	200 pairs

## Good for your business, good for the planet.

RightCycle\* from Kimberly-Clark Professional\* is an innovative program that helps you mitigate waste and cross-contamination issues in current processes and reach Corporate Social Responsibility (CSR) and Sustainability goals.

No more downcycling or upcycling. RightCycle\* makes it easy to recycle previously hard-to-recycle products like cleanroom garments and gloves into a variety of useful, eco-friendly products.

For more information, ask your distributor sales professional or contact Kimberly-Clark Professional\* directly at 800-255-6401.



### Our Guarantee

Your total satisfaction means everything to us. If, for any reason, our products do not meet your expectations, Kimberly-Clark will reimburse you† for your initial purchase, via FREE product, for up to \$1,000. For more information on Kimberly-Clark Professional\*, visit us online at [www.kcprofessional.com](http://www.kcprofessional.com), contact your Kimberly-Clark Sales Representative, or call us at 1-888-346-GOKC (4652).

† Guarantee extended to consuming end-user accounts only.



**KIMBERLY-CLARK\* KC500 PURPLE NITRILE\*  
Exam Gloves**

TEST & TECHNICAL DATA	Test	Objective	Relevance	FDA Requirement (Eff. 12/08)	ASTM D6319 Requirement	Descriptions	PURPLE NITRILE* Results
PHYSICAL PROPERTIES	ASTM D5151 Detection of Holes in Medical Gloves (Water Leak)†	Determine acceptability of gloves with respect to freedom from holes. The lower the Acceptance Quality Level (AQL), the better.	Measures potential for glove barrier integrity failure using ASTM standards.	Pass @ 2.5 AQL	Pass @ 2.5 AQL		Pass @ 1.0 AQL
	ASTM D412 Standard Test method for Vulcanized Rubber and Thermoplastic Elastomers-Tension (Tensile Strength)†	To assess the amount of force applied to a glove until it breaks. The lower the Acceptance Quality Level (AQL), the better.	The lower the tensile strength, the more easily materials of the same thickness can break when snagged or pressure is applied.	14 MPa (4.0 AQL)	14 MPa (4.0 AQL)	Tensile Strength	21 MPa Before Aging 21 MPa After Aging (2.5 AQL)
	ASTM D412 Standard Test method for Vulcanized Rubber and Thermoplastic Elastomers-Tension (Ultimate Elongation)†	To assess the breaking point of a glove when stretched. The lower the Acceptance Quality Level (AQL), the better.	Stretchability is very important at the microscopic level where the glove material must be able to give rather than break when stressed or snagged by instruments, fingernails, ridges on caps, twisting stop cocks on IV sets, or snapping off enclosures.	400% (4.0 AQL)	400% (4.0 AQL)	Ultimate Elongation	550% Before Aging (2.5 AQL) 500% After Aging (2.5 AQL)
	ASTM 3767 Standard Practice for Rubber-Measurement of Dimensions (Thickness)†	To measure glove thickness in millimeters (mm) utilizing a micrometer at specified locations on the finger and palm. The lower the Acceptance Quality Level (AQL), the better.	Thickness is a metric that can be used in determining both tactile sensitivity and barrier protection. Consistency for this metric is key for both durability and chemical permeation protection.	0.05mm 0.05mm (4.0 AQL)	0.05mm 0.05mm (4.0 AQL)	Finger Palm Cuff	0.15 mm 0.12 mm 0.09 mm (2.5 AQL)
	ASTM 3767 Standard Practice for Rubber-Measurement of Dimensions (Length)†	To measure glove length in millimeters (mm) utilizing a rule or tape from the upper finger tip to cuff. The lower the Acceptance Quality Level (AQL), the better.	This measurement helps ensure appropriate length and size correctness.	230 mm (4.0 AQL)	230 mm (4.0 AQL)	U.S. Requirements	242 mm (2.5 AQL) ††
	ASTM 6124 Residual Powder on Medical Gloves	Determine amount of residual powder on the glove surface; ASTM specifies the maximum allowed level of filter-retained substances for a powder-free claim.	A powder-free glove helps reduce powder-associated wound healing complications caused by starch glove powder and helps reduce irritant reactions and the transfer of proteins and chemicals that could potentially result in Type IV or I reactions.	<2mg			<2mg
	SYSTEM BIOCOMPATIBILITY	Systemic Toxicity ISO 10993-11	Evaluate the potential for harmful effects to organs or systems using specific product extracts.	Measures the likelihood of adverse systemic and local response from contact with the product.	Optional		

KIMBERLY-CLARK\* KC500 PURPLE NITRILE\* Powder-Free Exam Gloves have been tested according to the tests listed above.

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†D6319-00a Standard Specification for Nitrile Examination Glove for Medical Applications

††Sterile PURPLE NITRILE-XTRA\* = 305 mm†D6319-00a Standard Specification for Nitrile Examination Glove for Medical Applications

# KIMBERLY-CLARK\* KC500 PURPLE NITRILE\* Exam Gloves

TEST & TECHNICAL DATA	Test	Objective	Relevance	FDA Requirement <i>(Eff. 12/08)</i>	ASTM D6319 Requirement	Descriptions	PURPLE NITRILE* Results
IRRITATION AND SENSITIZATION	Primary Skin Irritation ISO 10993-10	Estimate the potential to induce skin irritation from direct exposure.	Measures the likelihood of dermal irritation from contact with the product.	Pass			Pass
	Sensitization ISO 10993-10	Estimate the potential to induce contact sensitization Type IV delayed hypersensitivity immunological response via product extracts.	Measures the likelihood of adverse immunological dermal response from contact with the product over time.	Pass			Pass
RESIDUAL CHEMICALS	High Pressure Liquid Chromatography (HPLC)	Measure the type and amount of residual chemicals left on the glove.	Lower levels of residual chemicals decrease the risk of developing irritant and Type IV reactions.	Optional			Pass
VIRAL PENETRATION	Penetration by Bloodborne Pathogens Using Phi-X174 Bacteriophage (Viral Penetration) ASTM F1671-97b	Measure the resistance of materials used in protective apparel to penetration by bloodborne pathogens.	Measures resistance to potentially infectious body fluids permeating through the protective material.	Optional	Pass		Pass

KIMBERLY-CLARK\* KC500 PURPLE NITRILE\* Powder-Free Exam Gloves have been tested according to the tests listed above.

### The following chemotherapy drugs and had NO breakthrough detected up to 240 minutes:

Bleomycin sulfate (15 mg/ml)	Doxorubicin HCl (2.0 mg/ml)	Mechlorethamine HCl (1.0 mg/ml)
Busulfan (6 mg/ml)	Epirubicin (Ellence) (2 mg/ml)	Melphalan (5 mg/ml)
Carboplatin (10 mg/ml)	Etoposide (20.0 mg/ml)	Methotrexate (25 mg/ml)
Cisplatin (1.0 mg/ml)	Fludarabine (25 mg/ml)	Mitomycin-C (0.5 mg/ml)
Cyclophosphamide (20.0 mg/ml)	Fluorouracil (50.0 mg/ml)	Mitoxantrone (2.0 mg/ml)
Cytarabine HCl (100 mg/ml)	Gemcitabine HCl (38.0mg/ml)	Paclitaxel (6.0 mg/ml)
Dacarbazine (10 mg/ml)	Idarubicin HCl (1.0mg/ml)	Rituximab (10 mg/ml)
Daunorubicin HCl (5.0 mg/ml)	Ifosfamide (50.0 mg/ml)	Trisenox (0.1 mg/ml)
Docetaxel (10.0 mg/ml)	Irinotecan HCl (20.0 mg/ml)	Vincristine Sulfate (1.0 mg/ml)

### PURPLE NITRILE-XTRA\* sterile exam gloves also provide protection against the following drugs. Breakthrough times listed:

ThioTEPA (10.0 mg/ml)	No breakthrough to 240 minutes
Carmustine (3.3 mg/ml)	Breakthrough detected in 48 minutes

*Chemotherapy Permeation Testing per ASTM D6978-05 "Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs"*

### The following chemicals had NO breakthrough detected up to 240 minutes:

Ethidium Bromide, 0.4%	Povidone Iodine, 10%
Sodium Hydroxide, 40%	Chlorhexidine Gluconate, 4%
Sulfuric Acid, 50%	Sodium Hypochlorite, 10-13%
Formalin, 10%	Quaternary Disinfectant Cleaner
Glutaraldehyde, 4%	

### PURPLE NITRILE-XTRA\* sterile exam gloves provide additional protection against the following chemicals. Breakthrough times listed:

Hydrogen Peroxide, 30%	20 minutes
n-Hexane, 96.1%	19 minutes
Isopropyl Alcohol, 70%	52 minutes
Ortho-phthalaldehyde/Cidex OPA	93 minutes
HCL, 37%	230 minutes

*ASTM F739 Standard Test Method for Permeation of Liquids and Gases through Protective Clothing materials under Conditions of Continuous Contact*

Infection prevention website:

[www.HAIwatch.com](http://www.HAIwatch.com)



For more information, please call your sales representative, or visit our web site at [www.kchealthcare.com](http://www.kchealthcare.com).

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### The KIMBERLY-CLARK ADVANTAGE\*

KNOWLEDGE NETWORK\* Accredited Education  
Ongoing Customer Support  
Expert Sales Force  
Tools & Best Practices  
Clinical Research  
Commitment to Excellence

All Chemical Permeation Testing was done on a single layer of glove material.



Trusted Clinical Solutions\*