JACKSON SAFETY* KLEENGUARD*
Gloves and Sleeves

Glove legislation
The legal responsibilities

When a glove is examined against a typical test standard, a performance level is normally assigned (between 0 and 5). Level 0 specifies that the glove is either untested or falls below the minimum performance level. A performance level 'X' signifies that the glove is not designed for the use covered by the corresponding test. Higher numbers indicate higher levels of performance.

EN 420: 2003
(General Requirements for Protective Gloves)

Glove Design and Construction
- Gloves should offer the greatest possible degree of protection in the foreseeable conditions of end use
- If seams are included, the strength of these seams should not reduce the overall performance of the glove.

Innocuousness
- Gloves should not cause any adverse harm to the end user
- Glove pH must be between 3.5 and 9.5
- Chromium (VI) content should be below detection (for gloves containing leather)
- Gloves made from natural rubber latex will be tested for extractable proteins according to EN 455-3

Cleaning Instructions
- If care instructions are provided, glove performance shall not be diminished when the maximum number of recommended cleaning cycle is used.

Sizing
- Gloves shorter in length than the required minimum will be marked 'Fit for Special Purpose'.

Dexterity
- If required, performance to be graded (Level 0 - 5)

EN 388: 2003
(Protective Gloves Against Mechanical Risks)

The 'Mechanical Risks' pictogram is accompanied by a 4-digit code:
- (a) Abrasion resistance (0 to 4)
- (b) Blade cut resistance (0 to 5)
- (c) Tear resistance (0 to 4)
- (d) Puncture resistance (0 to 4)

The relevant performance levels below should be clearly identifiable on the product and primary packaging

Test	Level 1	Level 2	Level 3	Level 4	Level 5
6.1 Abrasion resistance (number of cycles)	100	500	2000	8000	–
6.2 Blade cut resistance (index)	1,2	2,5	5,0	10,0	20,0
6.3 Tear resistance (N)	10	25	50	75	–
6.4 Puncture resistance (N)	20	60	100	150	–

EN374:2003
(Protective Gloves Against Chemicals and Micro-organisms)

When tested according to a water tightness and/or air tightness test, a glove shall not leak when an Acceptable Quality Level (AQL) is applied

Performance level	Acceptable quality level unit	Inspection levels
Level 3	< 0.65	G1
Level 2	< 1.5	G1
Level 1	< 4.0	S4

The Chemical pictogram (shown right) must be accompanied by three digits, referring to a permeation performance level 2 (or higher) achieved against three chemicals from a standard list, represented in Annex A of EN374-1:2003

Code	Chemical	CAS Number	Class
A	Methanol	67-56-1	Primary alcohol
B	Acetone	67-64-1	Ketone
C	Acetonitrile	75-05-8	Nitrile compound
D	Dichloromethane	75-09-2	Chlorinated para
E	Carbon disulphide	75-15-0	Sulphur containing organic compound
F	Toluene	108-88-3	Aromatic hydrocarbon
G	Diethylamine	109-89-7	Amine
H	Tetrahydrofurane	109-99-9	Heterocyclic and ether compound
I	Ethyl acetate	141-78-6	Ester
J	n-Heptane	142-85-5	Saturated hydrocarbon
K	Sodium hydroxide 40%	1310-73-2	Inorganic base
L	Sulphuric acid 96%	7664-93-9	Inorganic mineral acid

The 'Low Chemical Resistant' pictogram is used for gloves that do not achieve level 2 against at least three chemicals from the defined list, yet still comply with the Penetration test.

The 'Micro-organism' pictogram is used when a glove meets at least a performance level 2 for the Penetration test.

Gloves in Contact with Foodstuffs

We offer you the guarantee of compatibility between foodstuffs and glove components and full compliance with the toughest European and national standards in terms of food contact and food hygiene.

JACKSON SAFETY* / KLEENGUARD* Gloves
G80 and G20 Chemical Selection Guide

Test Chemical	CAS number	JACKSON SAFETY* G80 Gauntlet		JACKSON SAFETY* G80 Gloves		JACKSON SAFETY* G20 Gloves	
		Permeation break through time (min)	CE Rating (EN374-3:2003)	Permeation break through time (min)	CE Rating (EN374-3:2003)	Permeation break through time (min)	CE Rating (EN374-3:2003)
1,1,1-trichloroethane	71-56-6	>30	2				
1,1,2,2, tetrachloroethane	79-34-5	>30	2				
Acetic acid, glacial	64-19-7	>120	4	>60	3		0
Acetic acid, 10%	64-19-7					>480	6
Acetic acid, 25%	64-19-7	>480	6				0
Acetone	67-64-1		0		0		0
Acetonitrile, 5%	75-05-8					>60	3
Acetonitrile	75-05-8		0	>10	1		
Ammonium hydroxide, 20%	1336-21-6			>240	5		0
Butanol	71-36-3	> 480	6	> 480	6		0
Butyl acetate	123-86-4	>30	2	>30	2		
Butyl cellosolve	111-76-2	>480	6	> 480	6		
Carbon disulphide	75-15-0	>10	1	>10	1		
Chlorine (gas), 100%	7782-50-5			> 480	6		
Citric Acid Monohydrate, 30%	5949-29-1					>120	4
Cyclohexane, 99.9%	110-82-7	>480	6	> 480	6	>10	1
Cyclohexanol	108-93-0	>480	6	> 480	6		
Cyclohexanone	108-94-1	>60	3				
Diacetone alcohol	123-42-2	>120	4				
Dibutyl phthalate	83-74-2	>480	6				
Dichloromethane	75-09-2		0		0		
Diethyleamine	109-89-7	>10	1				
Diethylene glycol	111-46-6			> 480	6		
Di-isobutyl ketone				>240	5		
Dimethyl acetamide	127-19-5	>30	2	>10	1		
Dimethyl formamide	68-12-2						0
Dimethyl sulphoxide				>30	2	>10	1
Ethanol, absolute	64-17-5	>480	6				0
Ethanol, 95%	64-17-5			>240	5		0
Ethanol, 70%	64-17-5					>10	1
Ethidium Bromide, 1%	1239-45-8					>480	6
Ethyl acetate	141-78-6	>10	1	>10	1		
Ethyl ether	60-29-7	>10	1	>30	2		
Ethyl glycol,100%	107-21-1			> 480	6		
Ethyl glycol Ether	110-80-5	>240	5				
Ethyl lactate	687-48-8	>480	6				
Ethylene glycol	107-21-1	>480	6				
Formaldehyde, 37%	50-00-0			> 480	6	>480	6
Gasoline, white		>480	6				
Glutaraldehyde, 50%	111-30-8					>480	6
Heptane, 99%	142-82-5	>480	6	> 480	6		
Hexane	110-54-3	>480	6	> 480	6		0
Hydrazene monohydrate	7803-57-8			> 480	6		
Hydrazene monohydrate, 55%	7803-57-8					>480	6
Hydrazine 60%	302-01-2	>480	6				
Hydrochloric acid, 5%	7647-01-0					>480	6
Hydrochloric acid, 32%	7647-01-0					>120	4
Hydrochloric acid, 37%	7647-01-0			> 480	6	>30	2
Hydrochloric acid	7647-01-0	>480	6				
Hydrofluoric acid, 40%	7664-39-3			>120	4		
Hydrogen peroxide, 30%	7722-84-1			> 480	6	>10	1
Iron (III) Chloride, 40%	7705-08-0					>480	6
Isopropanol, 99.5%	67-63-0	>480	6	> 480	6	>10	1
Kerosene	8008-20-6			> 480	6	>10	1
Lactic acid 85%	598-82-3	>480	6	> 480	6		
Lauric acid 36% in ethanol	143-07-7	>120	4				
Maleic acid, saturated	110-16-7	>480	6				
Methanol	67-56-1	>30	2	>60	3		0
1 - methoxy - 2 - propanol, 55%	107-98-2					>60	3
Methyl ethyl ketone	78-93-3	>10	1		0		
Methyl methacrylate, 99%	80-62-6			>10	1		
Methyl propyl ketone	107-87-9	>10	1	>10	1		
Methyl tert-butyl ether, 99%	1634-04-4			>240	5		
Mineral Oil	8012-95-1					>60	3
Mineral Spirits	64475-85-0						0
Monoethanolamine	141-43-5	>480	6				
Muriatic acid	7647-01-0	>480	6				
Naptha solvent				>240	5		
Nitric acid, 40%	7697-37-2	>480	6	> 480	6		
Nitric acid, 50%	7697-37-2					>10	1
Octyl alcohol	111-87-5	>480	6	> 480	6		
ortho-Phosphoric acid	7664-38-2	>480	6				
Perchloric acid	7601-90-3	>480	6	> 480	6		
Petroleum ether	8032-32-4			> 480	6		
Petrol unleaded				> 480	6		
Potassium hydroxide, 50%	1310-58-3	>480	6	> 480	6		
Propanol	67-63-0	>480	6				
Propyl acetate	109-60-4	>60	3	>10	1		
Pyridine	110-86-1	>10	1				
Sodium hydroxide, 40%	1310-73-2			> 480	6	>480	6
Sodium hydroxide, 50%	1310-73-2	>480	6			>480	6
Sodium hypochlorite, 13%	7681-52-9	>480	6	> 480	6	>480	6
Sodium silicate	6834-92-0	>480	6				
Sulphuric acid, 50%	7664-93-9	>480	6			>480	6
Sulphuric acid, 96%	7664-93-9	>120	4	>120	4		0
Tetrachloroethylene, 100%	127-18-4			>240	5		
Tetrahydrofuran, 100%	109-99-9				0		
Thinner		>10	1				
Tributyl - phosphate	126-73-8					>10	1
Toluene	108-88-3	>30	2	>10	1		
Triethanolamine	102-71-6	>480	6				
Turpentine	8006-64-2	>480	6	> 480	6		0
White spirit	64742-48-9	>480	6				
White spirit	68551-17-7	>480	6				
White spirit	8052-40-13	>480	6	> 480	6		
Xylene (mixture of isomers)	1330-20-7	>60	3	>30	2		

When tested for chemical permeation, product performance is classified in terms of breakthrough time

Measured breakthrough time (min)	Permeation performance level
> 10	1
> 30	2
> 60	3
> 120	4
> 240	5
> 480	6

Analysis has been carried out under laboratory conditions and should only be considered as a guide for use. Chemical performance quoted may not be representative of workplace duration of protection due to the other factors that may affect performance (abrasion, temperature, degradation etc.).

This information is not intended to replace a hazard analysis and risk assessment by a safety professional or professional judgment in the selection of Personal Protective Equipment (PPE). It is the responsibility of the user to assess the type of hazards and risks associated with exposure and then decide on the appropriate PPE for each circumstance.

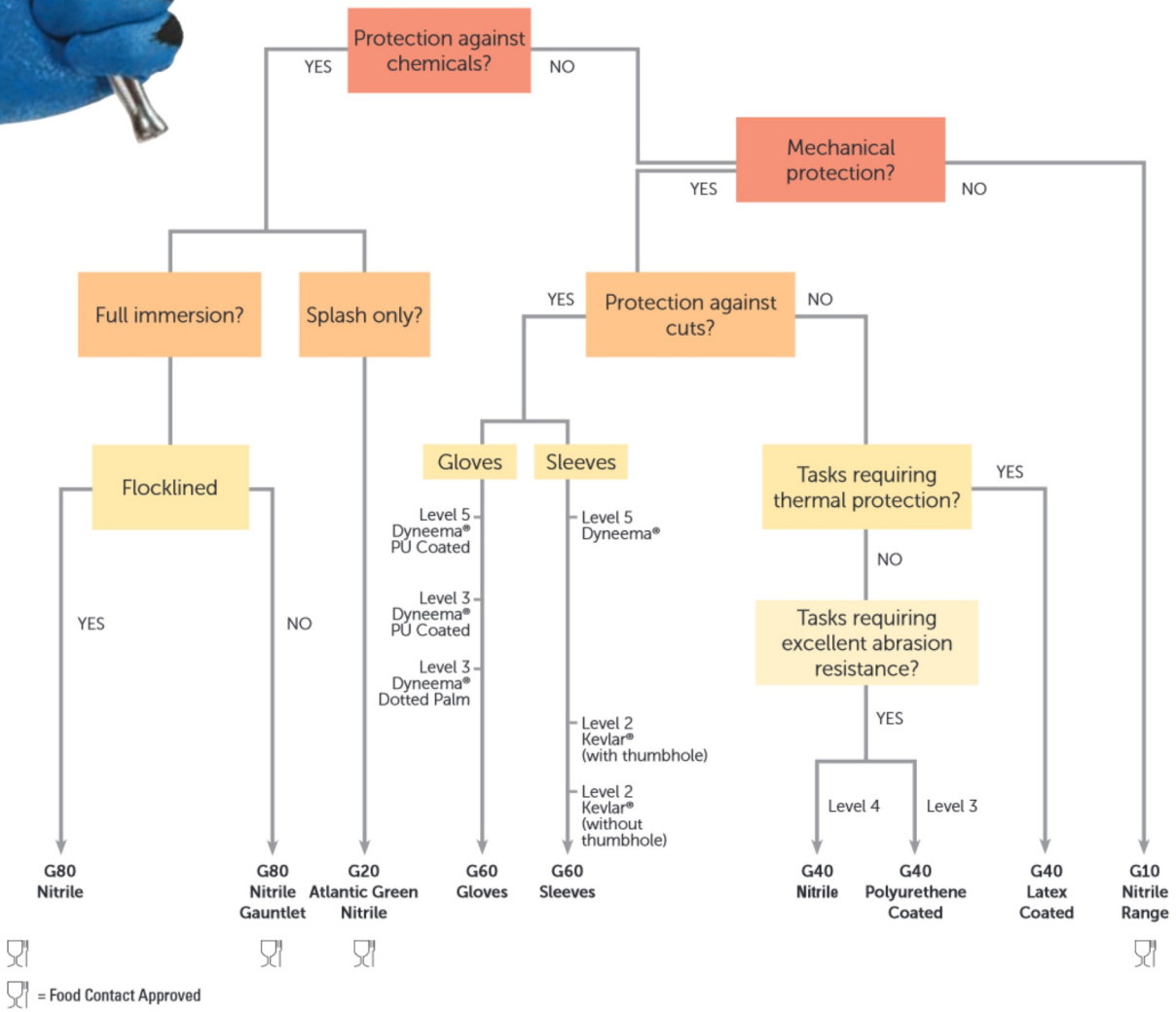
The data in this guide is correct as at the date of print. The data is subject to change as additional knowledge and experience is gained. To view any supplements or updates please visit **www.kcprofessional.com**

JACKSON SAFETY*/KLEENGUARD* Gloves
Product selector

Excellent dexterity for improved productivity

A comprehensive range of gloves providing the most appropriate hand protection to meet your needs.

Selecting the right glove
To increase productivity and cost-effectiveness, workers must be able to work efficiently, comfortably and safely, protecting their hands against a broad spectrum of possible hazards.
Use the glove selector in order to determine the right glove for the right task.



The selector is a guide only. It is the responsibility of the employer to make sure the glove is suitable for its intended use. We suggest that you always check the latest version of KIMBERLY-CLARK PROFESSIONAL* product literature to get more information about the products or visit : www.kcprofessional.com

JACKSON SAFETY*/KLEENGUARD* Gloves
G80 Chemical Protection Gloves

All products on this page are suitable for:
- Chemical handling[1]
- Manufacturing
- Transport
- Construction
- Agriculture
- Contract cleaning
- Janitorial and public service

Chemical Guide

Pages 41

All gloves on this page:
- Are available in various sizes
- Offer ergonomic design to provide maximum comfort and minimise hand fatigue
- Offer protection against a broad range of chemicals [1]
- PPE Category III (CE Complex) product classified by EC Council Directive 89/686/EEC

CE 0120

EN 374-3:2003 AJK

EN 388:2003 4101

EN 374-2:2003 Level 3

G80 Chemical Resistant Gloves
Nitrile

Chemical protection against:
- **Oils**
- **Greases**
- **Acids**
- **Caustics**
- **Solvents**

- Nitrile formulation offering excellent chemical resistance and durability
- Contains no natural rubber latex, reducing the potential for Type 1 glove associated reactions
- Flock lined for extra comfort and easy donning
- Resistant to many common chemicals, including oils and solvents [1]
- AQL 0.65 for pinholes
- High abrasion resistance

CE 0120

EN 374-3:2003 AJK

EN 388:2003 4101

EN 374-2:2003 Level 3

Nitrile Gauntlet

Chemical protection against:
- **Oils**
- **Greases**
- **Acids**
- **Caustics**
- **Solvents**

- 0.55 mm thickness
- Longer length (compared to our G80 Nitrile Glove) to protect wrist and lower forearm (46 cm)
- Unlined reducing the risk of lint contamination
- AQL 0.65 for pinholes

Description	Size/Code	7	8	9	10	11	Case Contents	PPE Classification	EN 388	EN 374-3
G80 Nitrile		94445	94446	94447	94448	94449	5 x x 12 = 60 pairs	CAT III	4101	AJK
G80 Nitrile Gauntlet		-	25622	25623	25624	25625	1 x x 12 = 12 pairs	CAT III	4101	AJK

(1) For the latest information on Chemical protection, please visit our website: www.kcprofessional.com

JACKSON SAFETY* Gloves
G60 Cut Resistant Gloves

These gloves are suitable for:
- Metal fabrication
- Glass handling
- Handling sharp objects
- Automotive assembly

These gloves are:
- Available in five sizes with colour coded cuffs

These gloves have:
- PPE Category II (CE Intermediate) product classified by EC Council Directive 89/686/EEC
- Long lasting- cost effective

EN 388:2003
4542

CE

G60 Cut Resistant Glove
Level 5 Cut Resistant Glove with **Dyneema®** Fiber

- PU Coating offers excellent grip
- Engineered patented yarn with steel and **Dyneema®** provides superior protection against cuts and gashes
- High breathability as yarn transmits heat away
- High cut resistance (Level 5)
- Conforms to EN420 Minimum Cuff Length providing protection to wrist area
- High abrasion resistance (Level 4)
- Latex free
- Suitable for washing

EN 388:2003
4340

CE

Level 3 PURPLE NITRILE* Cut Resistant Glove with **Dyneema®** Fiber

- Nitrile dots on palm offer excellent grip
- **Dyneema®** yarn provides excellent protection against cuts and gashes
- Conforms to EN420 Minimum Cuff Length providing protection to wrist area
- Unique Nitrile coated fingertips – grip with maximum breathability
- High abrasion resistance (Level 4)
- Latex free
- Suitable for washing

EN 388:2003
4342

CE

Level 3 Cut Resistant Glove with **Dyneema®** Fiber

- PU Coating offers excellent grip
- **Dyneema®** yarn provides excellent protection against cuts and gashes
- Excellent dexterity
- High breathability as yarn transmits heat away
- High cut resistance (Level 3)
- Conforms to EN420 Minimum Cuff Length providing protection to wrist area
- High abrasion resistance (Level 4)
- Latex free

Description	Size/Code	7	8	9	10	11	Case Contents	PPE Classification	EN 388	EN 407
	Colour Coding	●	●	●	●	●				
Level 5 Cut Resistant Glove with **Dyneema®** Fiber		98235	98236	98237	98238	98239	1 x x 12 = 12 pairs	CAT II	4542	
Level 3 PURPLE NITRILE* Cut Resistant Glove with **Dyneema®** Fiber		97430	97431	97432	97433	97434	1 x x 12 = 12 pairs	CAT II	4340	
Level 3 Cut Resistant Glove with **Dyneema®** Fiber		13823	13824	13825	13826	13827	1 x x 12 = 12 pairs	CAT II	4342	

Dyneema® is a registered trademark of Royal DSM N.V

JACKSON SAFETY* Sleeves
G60 Sleeves

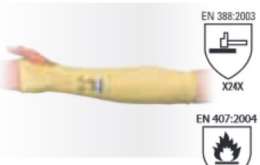
All the sleeves on this page are suitable for:
- Metal fabrication
- Glass handling
- Handling sharp objects
- Automotive assembly

These sleeves are perfect for:
- Applications where workers are involved in material handling
- Assembly work involving sharp objects metal shavings, glass and metal parts

CE

G60 Cut Resistant Sleeves
Level 5 Cut Resistant Sleeve with **Dyneema®** Fiber

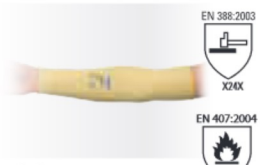
- **Dyneema®** yarn provides excellent protection against cuts and gashes
- High breathability as yarn transmits heat away
- High cut resistance (Level 5)
- Connectivity to glove to protect vulnerable wrist area
- Fully adjustable (to fit different size arms) retain sleeve in position
- Suitable for washing



CE

Level 2 Cut Resistant Sleeves **with Thumbhole**

- **Kevlar®** Blend liner provides excellent lightweight cutprotection (Level 2)
- Inner cotton liner for extra comfort
- Contact heat protection (Level 1)
- 45.7cm (18") cuff
- Good breathability



CE

Level 2 Cut Resistant Sleeves **without Thumbhole**

- **Kevlar®** Blend liner provides excellent lightweight cut protection (Level 2)
- Inner cotton liner for extra comfort
- Contact heat protection (Level 1)
- 45.7cm (18") cuff
- Good breathability

Look for the "with **Dyneema®**" diamond on cut-resistant gloves. Behind this small detail are many promises.

- **Made with genuine Dyneema®.** You'll know that the gloves are made with real **Dyneema®**, the world's strongest fiber™, for maximum protection.
- **Cool and lightweight.** Because they don't retain heat, these lightweight gloves keep hands cool and dry. It's like wearing no gloves at all. You will wear them for longer periods, reducing the chance of injuries.
- **Protects your bottom line.** These gloves are durable, resist abrasion and can be washed over and over. This increases their lifetime and reduces replacement costs.
- **A reliable partner.** You can be assured that DSM not only supplies the **Dyneema®** fiber, but also has provided technical expertise.
- **Quality you can trust.** Before a glove can display the "with **Dyneema®**" diamond, a prototype must pass the strictest testing criteria.
- **Accept no substitutes.** Specify gloves that have the "with **Dyneema®**" diamond to protect your employees…and your business.

Dyneema®
With you when it matters

Description	Code	Case Contents	PPE Classification	EN388
Level 5 Cut Resistant Sleeve with **Dyneema®** Fiber	90075	2 x x 12 = 12 pairs	CAT II	1521
Level 2 Cut Resistant Sleeves with Thumbhole	90070	5 x x 12 = 30 pairs	CAT II	X24X
Level 2 Cut Resistant Sleeves without Thumbhole	90071	5 x x 12 = 30 pairs	CAT II	X24X

JACKSON SAFETY*/KLEENGUARD* Gloves
G40 Mechanical Protection Gloves

All gloves on this page are suitable for:
- Manufacturing
- Transport construction
- Public sector service

All gloves on this page are:
- Hand specific for better ergonomics
- Available in five sizes with colour coded cuffs
- PPE Category II (CE Intermediate) product classified by EC Council Directive 89/686/EEC

CE

G40 Mechanical Protection Gloves
Nitrile Coated

Premium, general purpose hand protection providing:
- The highest levels of abrasion resistance

- Foam Nitrile Coated palm for excellent dry grip, dexterity and palm protection(1)
- Seamless nylon knitted backing for breathability and comfort
- Better durability with high abrasion resistance

CE

Polyurethane Coated

Versatile, general purpose hand protection

- Excellent grip due to roughened polyurethane coating
- Seamless nylon knitted backing for breathability and comfort
- Good tear and abrasion resistance for durability and reduced cost in use
- Excellent dexterity, ideal for handling small components

CE

Latex Coated

Cost-effective general purpose hand protection

- High tear resistance providing high durability
- Seamless knitted polyester construction offering high breathability for comfort in extended use
- Combines thermal and mechanical protection for handling a wider range of applications
- Crinkled finish latex coated palm provides excellent grip

Description	Size/Code	7	8	9	10	11	Case Contents	PPE Classification	EN 388
	Colour Coding								
G40 Nitrile Coated		40225	40226	40227	40228	40229	5 x x 12 = 60 pairs	CAT II	4131
G40 Smooth Nitrile		-	13833	13834	13835	13836	5 x x 12 = 60 pairs	CAT II	4131
G40 Polyurethane Coated		13837	13838	13839	13840	13841	5 x x 12 = 60 pairs	CAT II	3131
G40 Latex Coated G40 Latex Coated		97270	97271	97272	97273	97274	5 x x 12 = 60 pairs	CAT II	2142

(1) Not intended as primary protection against liquid chemicals.

JACKSON SAFETY* / KLEENGUARD* Gloves
G20 Atlantic Green Chemical Resistant Gloves

These gloves are suitable for:
- Chemical handling(1)
- Painting
- Printing
- Agriculture
- Automotive assembly
- Emergency services
- Local Authorities

Chemical Guide

Pages 41

These gloves are:
- Food contact certified
- Powder free
- Latex free
- Ambidextrous
- Compliant with AQL 1.5 for pinholes

EN 374-2:2003

EN 374-2:2003
Level 2

CE
0120

G20 Atlantic Green Nitrile Gloves

Protection against:
- **Chemical splash**

These gloves have:
- Textured finger tips providing excellent grip
- Excellent tactile sensitivity
- Beaded cuff
- 0.06mm thickness (minimum)
- PPE Category III (CE Complex) product classified by EC Council Directive 89/686/EEC
- Maximum touch sensitivity
- Comfort and flexibility

Description	Size/Code	XS	S	M	L	XL	Case Contents			PPE Classification
G20 Atlantic Green		90090	90091	90092	90093	90094	10x	x250 X225	=2500gloves =2250gloves	CAT III

(1) For the latest information on Chemical protection, please visit our website: www.kcprofessional.com

KLEENGUARD* Gloves
G10 Nitrile General Purpose Gloves

These gloves are suitable for:
- Automotive
- Warehousing
- Transport
- Cleaning and engineering industries
- Food processing and catering

These gloves are:
- Latex and Powder free
- Ambidextrous

These gloves have:
- Textured fingertips for better grip
- Beaded cuffs for added strength in donning

G10 Blue Nitrile Gloves

Premium gloves offering:
- High level of comfort
- Protection and performance

- 0.16mm thickness
- PPE Category I (CE Simple) product classified by EC Council Directive 89/686/EEC

G10 Arctic Blue Nitrile Gloves

All the benefits of natural rubber latex without the risk of reaction.

Premium gloves offering:
- Maximum touch sensitivity
- Comfort and flexibility

- Exceptional tactile sensitivity making them ideal for intricate assembly work
- 0.06 mm thickness (minimum)
- PPE Category I (CE Simple) product classified by EC Council Directive 89/686/EEC

G10 Grey Nitrile Gloves

Premium gloves offering:
- Tactile sensitivity and a comfortable, latex-like feel without natural rubber latex

- Designed for tasks requiring maximum dexterity.
- Comfortable strong and in environmental friendly packaging
- 0.08 mm thickness
- PPE Category I (CE Simple) product classified by EC Council Directive 89/686/EEC

G10 Flex Blue Nitrile Gloves

Premium gloves offering :
- Economical protection
- Comfort and flexibility

- Ideal for applications requiring repeated food contact
- PPE Category I (CE Simple) product classified by EC Council Directive 89/686/EEC

G10 Flex White Nitrile Gloves

Premium gloves offering :
- Economical protection
- Comfort and flexibility

- Ideal for applications requiring repeated food contact
- PPE Category I (CE Simple) product classified by EC Council Directive 89/686/EEC

Description	Size/Code	XS	S	M	L	XL	Case Contents	PPE Classification
G10 Blue Nitrile		57370	57371	57372	57373		10 × × 100 = 1000 gloves	CAT I
						57374	10 × × 90 = 900 gloves	
G10 Arctic Blue Nitrile		90095	90096	90097	90098		10 × × 200 = 2000 gloves	CAT I
						90099	10 × × 180 = 1800 gloves	
G10 Grey Nitrile		97820	97821	97822	97823		10 × × 150 = 1500 gloves	CAT I
						97824	10 × × 140 = 1400 gloves	
G10 Flex Blue Nitrile Gloves		38518	38519	38520	38521	38522	10 × × 100 = 1000 gloves	CAT I
G10 Flex White Nitrile Gloves		38523	38524	38525	38526	38527	10 × × 100 = 1000 gloves	CAT I