



**PRODUCT INFORMATION**

<b>Item Number</b>	<b>GN90</b>
<b>Product Colour</b>	<b>Blue</b>
<b>Size Range</b>	<b>XS-XL</b>
<b>Fingertip Thickness</b>	<b>0.09 mm</b>
<b>Palm Thickness</b>	<b>0.07 mm</b>
<b>Typical Weight</b>	<b>3.50 g</b>
<b>Shelf Life</b>	<b>5 Years</b>

**FEATURES**

**Chemical Resistant:** Achieves type C chemical resistance according to EN ISO 374-1, for chemical protection against at least 1 chemical

**Virus/Non Virus Standard:** Conforms with the requirements of EN ISO 374-5, for protection against bacteria, fungi and virus

**Low in Residual Chemicals:** Low in residual chemicals to reduce the risk of contact dermatitis associated with these chemicals

**Latex Free:** Latex Free reducing the risk of hypersensitivity and allergic reactions

**Manufactured From:** Manufactured from specially formulated nitrile butadiene polymer

**Powder Free:** Reduced risk of dust contamination

**Textured Finish:** Textured finish for improved grip

**Suitability:** Suitable for use with cytotoxic/chemotherapy drugs

**SECTORS**

Automotive • Food Manufacturing and Preparation • Janitorial • Medical, Vet and Dental



**STANDARDS**

AQL 1.5

This product is classified as Class I Medical Device in compliance with the requirements of Medical Device Regulation (EU) 2017/745 & UK MDR 2002 (SI2002 No.618 as amended) (UKCA)

EU Certified

Manufactured in accordance with Personal Protective Equipment (PPE) by the European PPE Regulation (EU) 2016/425

Tested in compliance with Commission Regulation (EU) No 10/2011 for Food contact

Tested to European Standards EN420, EN ISO 374-1, EN 374-4 & EN ISO 374-5

**Compliant with European Standards EN455:** Medical Gloves for Single Use parts 1,2,3&4



MDR - Class I  
PPE CAT III



CLASS 1  
MEDICAL  
DEVICE



EN ISO 374-1:  
2016 Type C



EN ISO 374-5:  
2016



AQL  
1.5

2777

VIRUS



Disposable Gloves

Nitrile

For further technical information, please contact Customer Services on 0333 320 8550 or the Technical team on 0333 320 8555



**CAUTION**

Contains accelerator chemicals which may cause type IV skin irritation and contact dermatitis in sensitised individuals.

**PACKING**

200 gloves per dispenser  
10 dispensers per case  
60 cases per pallet

**INNER PACKAGING**



**STORAGE INSTRUCTIONS**

Store in dry conditions, away from direct sunlight and extreme heat. You are advised to retain the packaging for reference. Always inspect gloves prior to use and do not use if damaged or showing signs of wear.

**DISPOSAL INSTRUCTIONS**

Dispose of responsibly and in line with local guidance.

**OUTER PACKAGING**



Size	Inner Packaging Barcode
XS	5024951012719
Small	5024951012726
Medium	5024951012733
Large	5024951012740
XL	5024951012757

Size	Outer Packaging Barcode
XS	5024951012764
Small	5024951012771
Medium	5024951012788
Large	5024951012795
XL	5024951012801

Inner Packaging	
Inner dimensions (LxWxH)	235 x 125 x 82mm

Outer Packaging	
Outer Dimensions (LxWxH)	418 x 258 x 251mm

**PLEASE NOTE:**

Weight does not form part of the specification and is subject to change. Palm thicknesses is approximate and based on an agreed manufacturing tolerance. All thickness and weights given are an average for medium (8) gloves. All thicknesses and weights given are correct to the best of Polyco Healthline Ltd.'s knowledge at the time of input, however due to the manufacturing process, both thickness and weight may vary between batches.

For further technical information, please contact Customer Services on 0333 320 8550 or the Technical team on 0333 320 8555

## GN90 Food contact statement

<b>Product Brand:</b>	HandSafe
<b>Product Description:</b>	Nitrile powder free disposable glove
<b>Product Code:</b>	GN90

Polyco Healthline Ltd hereby declares that the above-mentioned products and were manufactured in accordance with:

- In Accordance with European Commission Directive 1935/2004/EC, Regulation (EU) No. 10/2011, Regulation (EU) 2016/1416 and Regulation (EU) No. 2017/752, Regulation (EU) 2020/1245 on plastic materials and articles intended to come into contact with food.

And are in compliance with:

- European Commission Regulation (EU) 2020/1245, (EU) No 10/2011 and its amendments on plastic materials and articles intended to come into contact with food.
  - Specific migration of heavy metals.

### Test results:

Overall migration test:

Simulant used	Test condition	Limit mg/dm <sup>2</sup>	Result mg/dm <sup>2</sup>
3% Acetic Acid	40°C / 30 minutes	10	< 3
20% Ethanol	40°C / 2 hours	10	< 3
Olive Oil	40°C / 2 hours	10	< 3

Specific Migration test:

Test Item(s)	Result (mg/kg)	Maximum Permissible Limit (mg/kg)
Lithium	<0.1	0.6
Aluminium	<0.1	1
Chromium	ND	ND (DL:0.01)
Manganese	<01	0.6
Iron	<5	48
Cobalt	<0.01	0.05
Nickel	<0.01	0.02
Copper	<1	5
Zinc	<1	5
Arsenic	ND	ND (DL:0.01)
Cadmium	ND	ND (DL:0.01)

Antimony	<0.01	0.04
Barium	<0.1	1
Mercury	ND	ND (DL:0.01)
Lead	ND	ND (DL:0.01)
Lanthanum	<0.01	0.05
Europium	<0.01	0.05
Gadolinium	<0.01	0.05
Terbium	<0.01	0.05
Sum of (La, Eu, Gd, Tb)	<0.04	0.05

This statement is supported by Test Report: TST202111Q3177-6EN, Dongguan TST Technology Co., Ltd & Test Report 721662648 TUV SUD China.

### Suitable Food Types

Beverages	Clear beverages: non-alcoholic, or alcoholic with ≤6% alcohol content	<b>Suitable</b>
	Cloudy beverages: non-alcoholic, or alcoholic with ≤6% alcohol content	<b>Suitable</b>
	Alcoholic beverages with 6 - 20% alcohol content	<b>Suitable</b>
	Alcoholic beverages with >20% alcohol content and all cream liqueurs	<b>Suitable</b>
	Miscellaneous: undenatured ethyl alcohol	<b>Not Suitable</b>
Bread, cereals, pastries, cakes, etc.	Starches, cereals, flour, meal, dry pasta and similar products, fresh pasta	<b>Suitable</b>
	Bread, pastry, biscuits, cakes, and similar products: dry or fresh; with fats or oils on the surface	<b>Suitable</b>
	Bread, pastry, biscuits, cakes, and similar products: dry or fresh; without fats or oils on the surface	<b>Suitable</b>
Chocolate, sugar, and confectionery products	Chocolate, chocolate-coated products, and chocolate substitutes	<b>Suitable</b>
	Confectionery products in solid or paste form, with fatty substances on the surface	<b>Suitable</b>
	Confectionery products in solid form, without fatty substances on the surface	<b>Suitable</b>
	Confectionery products in moist form, without fatty substances on the surface	<b>Suitable</b>
	Sugar and sugar products in solid form; crystalline or powdered	<b>Suitable</b>
	Molasses, sugar syrups, honey	<b>Suitable</b>
Fruits and vegetables	Fruit and vegetables, unpeeled and uncut	<b>Suitable</b>
	Fruit and vegetables, peeled and/or cut	<b>Suitable</b>
	Processed fruit and vegetables, dried or dehydrated	<b>Suitable</b>
	Processed fruit and vegetables in purée form	<b>Suitable</b>
	Preserved fruit, in an oily medium	<b>Suitable</b>
	Preserved vegetables, in an oily medium	<b>Suitable</b>
	Preserved fruit and vegetables, in an alcoholic medium	<b>Suitable</b>
	Nuts: shelled and roasted, or shelled and dried, flaked, or powdered	<b>Suitable</b>
	Nuts: paste or cream form	<b>Suitable</b>
Fats and oils	Animal and vegetable fats and oils, natural or treated (cocoa butter, lard, olive oil, etc.)	<b>Suitable</b>
	Margarine, butter, and other fats and oils made from water emulsions in oil	<b>Suitable</b>

Animal products (meat, seafood, eggs, etc.)	Fish: fresh, chilled, processed, smoked, or salted, including fish eggs	Suitable
	Fish, crustaceans, and molluscs: preserved in an oily medium	Suitable
	Fish, crustaceans, and molluscs: preserved in an aqueous medium	Suitable
	Crustaceans and molluscs: fresh within the shell	Suitable
	Meat and processed meat products: fresh, chilled, salted, or smoked	Suitable
	Marinated meat: in an oily medium	Suitable
	Preserved meat: in a fatty or oily medium	Suitable
	Preserved meat: in an aqueous medium	Suitable
	Whole eggs, egg yolk, or egg white: powdered, dried, or frozen	Suitable
Egg yolk or egg white: liquid or cooked	Suitable	
Dairy products	Whole, skimmed, or partly dried milk	Suitable
	Milk powder, including infant formula	Suitable
	Cream, sour cream, and fermented milk (yoghurt, buttermilk, etc.)	Suitable
	Cheese: whole, with inedible rind	Suitable
	Cheese: without rind or with edible rind	Suitable
	Cheese: processed and soft cheeses	Suitable
	Preserved cheese: in an oily medium	Suitable
Preserved cheese: in an aqueous medium	Suitable	
Miscellaneous - condiments and sauces	Sauces: with aqueous character	Suitable
	Sauces: with fatty character (e.g., mayonnaise, salad creams)	Suitable
	Mustard	Suitable
	Vinegar	Suitable
Miscellaneous - mixed foods	Sandwiches, toasted bread, pizza: with fatty topping/fillings	Suitable
	Sandwiches, toasted bread, pizza: without fatty toppings/fillings	Suitable
	Soups, sauces, broths: powdered or dried with fatty characters	Suitable
	Soups, sauces, broths: powdered or dried without fatty characters	Suitable
	Soups, sauces, broths: in any other form with fatty characters	Suitable
	Soups, sauces, broths: in any other form without fatty characters	Suitable
	Fried or roasted foods of vegetable origin (fried potatoes, fritters)	Suitable
Fried or roasted foods of animal origin	Suitable	
Miscellaneous - others	Dried foods: with fatty substances on the surface	Suitable
	Dried foods: without fatty substances on the surface	Suitable
	Herbs and spices	Suitable
	Spices and seasoning in an oily medium (e.g., pesto, curry paste)	Suitable
	Coffee and coffee substitutes: granulated or powdered	Suitable
	Cocoa powder	Suitable
	Cocoa paste	Suitable
	Concentrated extracts with $\geq 6\%$ alcohol content	Suitable
	Frozen or deep-frozen foods	Suitable
Ice-creams	Suitable	



### Food Compatibility - Disposable Gloves

= Suitable 
  = Suitable if pH >4.5 
  = Suitable if no fatty contact 
  = Not suitable

Type of food	Required simulants	Nitrile										Latex		Vinyl					PE			Other			
		FHD50 (A,B,D1,D2)	FN100 (A,B, D2)	GD19 (B,C,D2)	GD21 (A,B,C,D1,D2)	GN90 (B,C,D2)	GM99 (A,B,D2)	GL890 (A,B,D2)	GL891 (A,B,D2)	GL895 (A,B,D2)	GL897 (A,B,C,D1,D2)	GN830 (A,B,C,D1,D2)	MFPN100 (A,B,C,D1,D2)	GD05 (A,C,D1,D2)	GD45 (A,C,D1,D2)	GD09 (A,B)	GD13 (A,B)	GD47 (B,C)	GD17 (B,C)	GN65 (A,B)	GD11 (B,C)	GD52 (A,B,D2)	GD55 (A,B,D2)	PE100 (A,B,D2)	FUS50 (A,B,D2)
Beverages	Clear beverages: non-alcoholic, or alcoholic with ≤6% alcohol content	B*, C																							
	Cloudy beverages: non-alcoholic, or alcoholic with ≤6% alcohol content	B*, D1																							
	Alcoholic beverages with 6 - 20% alcohol content	C																							
	Alcoholic beverages with >20% alcohol content and all cream liqueurs	D1																							
	Miscellaneous: undenatured ethyl alcohol	B*, 95% ethanol																							
Bread, cereals, pastries, cakes, etc.	Starches, cereals, flour, meal, dry pasta and similar products, fresh pasta	E																							
	Bread, pastry, biscuits, cakes, and similar products: dry or fresh; with fats or oils on the surface	D2/(3)																							
	Bread, pastry, biscuits, cakes, and similar products: dry or fresh; without fats or oils on the surface	E																							
Chocolate, sugar, and confectionery products	Chocolate, chocolate-coated products, and chocolate substitutes	D2/(3)																							
	Confectionery products in solid or paste form, with fatty substances on the surface	D2/(3)																							
	Confectionery products in solid form, without fatty substances on the surface	E																							
	Confectionery products in moist form, without fatty substances on the surface	C																							
	Sugar and sugar products in solid form; crystalline or powdered	E																							
	Molasses, sugar syrups, honey	A																							
Fruits and vegetables	Fruit and vegetables, unpeeled and uncut	E/(10)																							
	Fruit and vegetables, peeled and/or cut	A, B*																							
	Processed fruit and vegetables, dried or dehydrated	E																							
	Processed fruit and vegetables: in purée form	B*, C																							
	Preserved fruit, in an oily medium	D2																							
	Preserved vegetables, in an oily medium	A, D2																							
	Preserved fruit and vegetables, in an alcoholic medium	D1																							
	Nuts: shelled and roasted, or shelled and dried, flaked, or powdered	E																							
Fats and oils	Nuts: paste or cream form	D2																							
	Animal and vegetable fats and oils, natural or treated (cocoa butter, lard, olive oil, etc.)	D2																							
Animal products (meat, seafood, eggs, etc.)	Margarine, butter, and other fats and oils made from water emulsions in oil	D2/(2)																							
	Fish: fresh, chilled, processed, smoked or salted, including fish eggs	A, D2/(3)**																							
	Fish, crustaceans, and molluscs: preserved in an oily medium	A, D2																							
	Fish, crustaceans, and molluscs: preserved in an aqueous medium	B*, C																							
	Crustaceans and molluscs: fresh within the shell	None required																							
	Meat and processed meat products: fresh, chilled, salted, or smoked	A, D2/(4)**																							
	Marinated meat: in an oily medium	A, D2																							
	Preserved meat: in a fatty or oily medium	A, D2/(3)																							
	Preserved meat: in an aqueous medium	B*, D1																							
	Whole eggs, egg yolk, or egg white: powdered, dried, or frozen	E																							
Dairy products	Egg yolk or egg white: liquid or cooked	D1																							
	Whole, skimmed, or partly dried milk	D1																							
	Milk powder, including infant formula	E																							
	Cream, sour cream, and fermented milk (yoghurt, buttermilk, etc.)	B*, D1																							
	Cheese: whole, with inedible rind	E																							
	Cheese: without rind or with edible rind	D2/(3)**																							
	Cheese: processed and soft cheeses	B*, D1																							
	Preserved cheese: in an oily medium	A, D2																							
Preserved cheese: in an aqueous medium	B*, D1																								
Miscellaneous - condiments and sauces	Sauces: with aqueous character	B*, C																							
	Sauces: with fatty character (e.g., mayonnaise, salad creams)	A, B*, D2																							
	Mustard	A, B*, D2/(3)**																							
	Vinegar	B																							
Miscellaneous - mixed foods	Sandwiches, toasted bread, pizza: with fatty topping/fillings	A, D2/(5)																							
	Sandwiches, toasted bread, pizza: without fatty toppings/fillings	E																							
	Soups, sauces, broths: powdered or dried with fatty characters	D2/(5)																							
	Soups, sauces, broths: powdered or dried without fatty characters	E																							
	Soups, sauces, broths: in any other form with fatty characters	A, B*, D2/(3)																							
	Soups, sauces, broths: in any other form without fatty characters	B*, C																							
	Fried or roasted foods of vegetable origin (fried potatoes, fritters)	A, D2/(5)																							
Miscellaneous - others	Fried or roasted foods of animal origin	A, D2/(4)																							
	Dried foods: with fatty substances on the surface	D2/(5)																							
	Dried foods: without fatty substances on the surface	E																							
	Herbs and spices	E																							
	Spices and seasoning in an oily medium (e.g., pesto, curry paste)	D2																							
	Coffee and coffee substitutes: granulated or powdered	E																							
	Cocoa powder	E																							
Cocoa paste	D2/(3)																								
Concentrated extracts with ≥6% alcohol content	B*, D1																								
Frozen or deep-frozen foods	E																								
Ice-creams	C																								

A, B, D2 for 'all food types', with the below substitutions: 50% ethanol (D1) covers 20% ethanol (C), which covers 10% ethanol (A), which covers poly(2,6-diphenyl-p-phenylene oxide)(E)  
 \* = not needed if pH > 4.5    \*\* = D2 not needed if no 'fatty contact'    (X) = applicable reduction factor

## Chemotherapy Permeation Statement

<b>Product Brand:</b>	PH Handsafe
<b>Product Description:</b>	Powder Free Blue Nitrile Examination Gloves
<b>Product Code:</b>	GN90

The PH Handsafe GN90 blue nitrile examination grade gloves were submitted by the OEM factory to Akron Rubber Development Laboratory Inc. for testing in accordance with ASTM D6978-05: Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs (test report reference: PN 97868).

### Minimum Break Through Time – GN90 Blue Nitrile Gloves

Test Chemical	Concentration	Minimum Breakthrough Time - minutes	Suitability
Carmustine (BCNU)	3.3 mg/ml 3,300ppm	1.3	No
Cisplatin	1.0 mg/ml 1,000ppm	No Breakthrough up to 240 Mins.	Yes
Cyclophosphamide (Cytosan)	20.0 mg/ml 20,000ppm	No Breakthrough up to 240 Mins.	Yes
Doxorubicin Hydrochloride	2.0 mg/ml 2,000ppm	No Breakthrough up to 240 Mins.	Yes
Etoposide (Toposar)	20.0 mg/ml 20,000ppm	No Breakthrough up to 240 Mins.	Yes
Fluorouracil	50.0 mg/ml 50,000ppm	No Breakthrough up to 240 Mins.	Yes
Paclitaxel (Taxol)	6.0 mg/ml 6,000ppm	No Breakthrough up to 240 Mins.	Yes
Thiotepa	10.0 mg/ml 10,000ppm	37.2	Splash Resistance
Methotrexate	25 mg/ml 25,000ppm	No Breakthrough up to 240 Mins.	Yes
Mitomycin C	0.5 mg/ml 500ppm	No Breakthrough up to 240 Mins.	Yes
Vincristine Sulfate	1.0 mg/ml 1,000ppm	No Breakthrough up to 240 Mins.	Yes

\*Splash resistance: The glove must be changed immediately following contact.

Karen Gunning  
 QA and Regulatory Affairs Department

01<sup>st</sup> December 2023

