

# PRODUCT SPECIFICATION

**HandPRO.**

# **FORTIS500™**

## **EXTENDED CUFF Nitrile Exam Gloves** with Low Dermatitis Potential

**260mm (10.5") Length**

**Accelerator-Free\* Nitrile**

**Extended-Cuff Length for  
Extra Splash Protection**

**Finger-Textured Surface**

**Ergonomically Designed**

**Anti-Slip Grip**

**Enhanced Strength**

**Chemotherapy Drug and  
Fentanyl Permeation Tested\*\***

**Matte Black Color**

**Ambidextrous**

**Powder-Free**

**No Sulfur Added**

**Non-Sterile**

**Beaded Cuff**



Patented Technology\*



\*No dithiocarbamates, thiurams  
or mercaptobenzothiazoles (MBT)  
Patent [www.lowderma.com/patents](http://www.lowderma.com/patents)

\*\* Fentanyl Citrate >240 Minutes; U.S. FDA 510(k)  
PROTECTIVE SINGLE-USE EXAMINATION GLOVES FOR EMERGENCY MEDICAL  
OPERATIONS IN ACCORDANCE WITH NFPA 1999-2018



## QUALITY & CONFORMITY

- Manufactured under ISO 13485, ISO 9001, and US FDA QSR Quality Management System
- Conforms to ASTM D6319 and EN455
- Complies with PPE Regulation (EU) 2016/425, Cat III and MDD 93/42/EEC
- Complies with US FDA 21 CFR 177.2600 for food handling
- Meets ASTM D6978 and USP 800 PPE requirement for use of chemotherapy gloves when handling hazardous drugs
- Meets NFPA 1999 standard for single-use emergency medical examination gloves
- Conforms to the following additional test standards:
 

ASTM D412	Tensile Properties of Vulcanized Rubbers
ASTM D3578	Standard Specification for Rubber Examination Gloves
ASTM D5151-99	Standard Test for Detection of Holes in Medical Gloves
ASTM D573	Accelerated Aging for Rubber (at 70° C for 166hr)
ASTM D6124	Test Method for Residual Powder on Medical Gloves
ASTM D6978	Tested for use with Chemotherapy Drugs and Fentanyl Citrate
ISO 16604	Viral Penetration Test

## CHEMICAL RESISTANCE

CHEMICAL NAME	ASTM F739 (Minutes)	EN16523-1*	CHEMICAL NAME	ASTM F739 (Minutes)	EN16523-1*
Acetic Acid, 10%	> 480		Hydrogen Peroxide, 30%	17.8	Level 2
Acetone, 80%	0		Isopropyl Alcohol, 70%	49.5	Level 2
Ammonium Hydroxide	55.7		Isopropyl Alcohol, 99.5%	45.2	
Butanol	27.8		Methanol in water, 1.5%		Level 6
Cidex OPA	28.9		n-Heptane		Level 3
Citric Acid, 30%	> 480		n-Hexane, 96%	70.3	
Chlorhexadine Gluconate, 4%	> 480		Nitric Acid, 10%	> 480	
Ethanol, 70%	25.2		Phenol, 10%	5	
Ethanol, 99%	9.6		Phenol, 0.1%		Level 6
Ethidium Bromide, 5%		Level 6	Potassium Hydroxide, Saturated	> 480	
Formaldehyde, 37%	> 480	Level 6	Povidone Iodine, 10%	> 480	
Formalin, 10%	> 480		1-Propanol	24.3	
Glutaraldehyde, 50%	> 480	Level 6	Sodium Hydroxide, 40%	> 480	Level 6
Hydrochloric Acid, 10%	> 280		Sodium Hypochlorite, 10-13%	> 480	Level 6
Hydrochloric Acid, 37%	166.9		Sulphuric Acid, 50%	> 480	Level 6

\* with measured breakthrough time of minimum 480 minutes for level 6, minimum 60 minutes for level 3, and minimum 30 minutes for level 2

## PHYSICAL SPECS & PROPERTIES

Size	XS (5/6)	Small (6/7)	Medium (7/8)	Large (8/9)	XL (9/10)	XXL (10/11)
Palm Width ± 5 mm	75	85	95	106	116	126
Glove Length (mm)	Typical Value 265-268 (260 Minimum)					
Thickness (mm   mils)	<b>Typical Values</b> Cuff 0.07 mm   2.7 mils Palm 0.09 - 0.10 mm   3.5 - 3.9 mils Finger 0.13 - 0.14 mm   5.1 - 5.5 mils					
Test	Before Aging		After Aging			
	Minimum	Typical Value	Minimum	Typical Value		
Tensile Strength (MPa)	14	25 - 31	14	27 - 33		
Ultimate Elongation	500%	600-630%	400%	600 - 640%		
Force at Break (Newton)	6.0	7.3 - 8.2	6.0	7.5 - 8.2		

The specifications provided reflect the minimum acceptable requirements of the ASTM and FDA where applicable. Actual testing results are available upon request. Gloves offered by Hourglass International, Inc. meet or exceed these physical requirements. Independent laboratory test results are available upon request.

Your Protection Is  
Our Purpose



## PERFORMANCE REQUIREMENTS

Characteristic	Inspection Level	AQL
Freedom from Holes	G1	1.5
Visual Defects (Major)	G1	2.5
Visual Defects (Minor)	G1	4.0
Physical Properties	S2	4.0
Physical Dimensions	S2	4.0
Powder Residue	-	2mg/glove (Max)

## CHEMOTHERAPY DRUGS & FENTANYL

**No breakthrough after 240 minutes:** Cisplatin, Cyclophosphamide (Cytoxan,) Cytarabine, Dacarbazine, Doxorubicin Hydrochloride, Etoposide, Fluorouracil, Ifosfamide, Methotrexate, Mitomycin C, Mitoxantrone, Paclitaxel (Taxol,) Vincristine Sulfate. **Not Recommended for Use:** Thiotepea, Carmustine. **No breakthrough after 240 minutes:** Fentanyl Citrate

## ESD PROPERTIES

HandPRO® Fortis500 Series is a Static Dissipative Nitrile Exam Glove

## PRODUCT NUMBERS

Size	Item #	Case Quantity
X-Small	500	1000
Small	501	1000
Medium	502	1000
Large	503	1000
X-Large	504	1000
XX-Large	505	900

## PACKAGING

100 gloves / box (XS - XL)  
90 gloves / box (XXL)  
10 boxes / case

## SHELF LIFE & STORAGE

Five years from date of manufacture. Store in a cool, dry place away from direct sunlight.

Manufactured in Malaysia for Hourglass International, Inc. The information on this document is a guideline of typical values and characteristics of the product.