

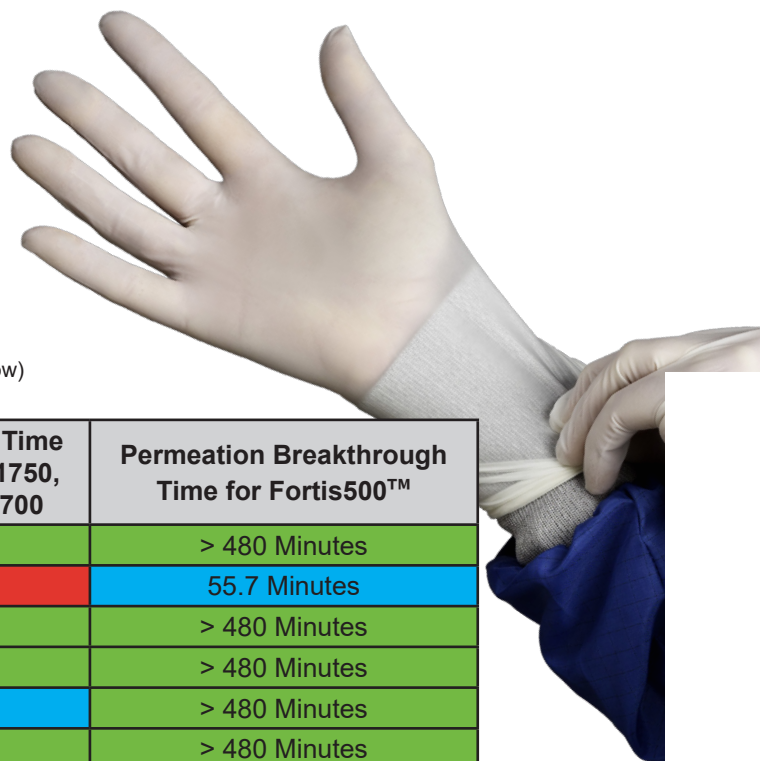
HandPRO® Nitrile Gloves

CHEMICAL RESISTANCE CHART

HandPRO® Nitrile Gloves are low-modulus, thin gauge nitrile gloves designed for your comfort and protection. Thin gauge gloves are not meant for prolonged chemical exposure, and provide **incidental chemical splash** protection only. Because work conditions vary, the suitability of a glove must be based on customer testing. This information is provided as general guidance only.

This data was generated from the HandPRO® Scion700™ Nitrile Exam Glove with Low Dermatitis Potential, an accelerator-free nitrile glove. The data applies to the following HandPRO® gloves:

- HandPRO® Series 9300, 9100, 1750
- HandPRO® FreeStyle1100™
- HandPRO® Scion700™
- HandPRO® Fortis500™ Extended Cuff (see additional test data below)



CHEMICAL	Permeation Breakthrough Time for HandPRO® 9300, 9100, 1750, FreeStyle1100 and Scion700	Permeation Breakthrough Time for Fortis500™
Acetic Acid (10%)	> 120 Minutes	> 480 Minutes
Ammonium hydroxide (25%)	> 10 Minutes	55.7 Minutes
Chlorhexidine digluconate (4%)	> 480 Minutes	> 480 Minutes
Ethidium Bromide (5%)	> 480 Minutes	> 480 Minutes
Formaldehyde (37%)	> 60 Minutes	> 480 Minutes
Glutaraldehyde (50%)	> 480 Minutes	> 480 Minutes
Hydrofluoric acid (1%)*	> 480 Minutes	Not tested
Hydrogen peroxide (30%)	> 30 Minutes	> 30 Minutes
Methanol in water (1.5%)	> 480 Minutes	> 480 Minutes
Phenol (0.1%)	> 480 Minutes	> 480 Minutes
Sodium hydroxide (40%)	> 480 Minutes	> 480 Minutes
Sodium Hypochlorite (10-13%)	> 480 Minutes	> 480 Minutes
Sulphuric acid (50%)	> 480 Minutes	> 480 Minutes

*Test performed on HandPRO 9100 and applies to HandPRO 9100 and 9300 Series gloves.

COLOR CODE RATING SYSTEM			
VERY GOOD	GOOD	FAIR	POOR

The information in this chart is based on published information and is intended for general guidelines only. HandPRO® gloves have not been individually tested against these chemicals.

CHEMICAL	COLOR CODE RATING	
	LATEX	NITRILE
Acetaldehyde	Blue	Blue
Acetic Acid	Green	Green
Acetone	Green	Red
Acetonitrile (99%)	Yellow	Red
Acrylic Acid (99%)	Yellow	Red
Ammonium Hydroxide (30%)	Green	Green
Amyl Acetate (99%)	Red	Red
Aniline (99.5%)	Yellow	Red
Benzaldehyde	Yellow	Green
Benzene	Red	Yellow
Benzyl Alcohol (99%)	Red	Red
Butanol / Butyl Alcohol	Green	Green
Butyl Acetate	Yellow	Red
Carbon Disulfide	Yellow	Yellow
Carbon Tetrachloride	Red	Blue
Chloroform	Red	Yellow
Citric Acid (10%)	Green	Green
Cyclohexane (99.7%)	Red	Red
Cyclohexanol (99%)	Yellow	Green
Cyclohexanone (99.8%)	Red	Red
d-Limonene (97%)	Yellow	Green
n-Dibutyl Phthalate (99%)	Red	Blue
1,2-Dichlorobenzene (99%)	Red	Red
Dichloromethane (99.9%)	Red	Red
Diesel Fuel, mixture	Red	Red
Diethyl Ether (99.9%)	Red	Red
Diethylamine (99.5%)	Yellow	Red
Di-isobutyl Ketone	Yellow	Red
Dimethyl Sulfoxide (99.9%)	Red	Red
Dibutyl Phthalate (99%)	Red	Green
Dioxane	Blue	Blue
Ethanol/Ethyl Alcohol (99.5%)	Green	Green
Ethanolamine (99%)	Green	Green
Ethylene Glycol (99.9%)	Green	Green
Formaldehyde	Green	Green
Formic Acid	Green	Green
Hexane	Red	Blue
Hydrazine (65%)	Blue	Blue
Hydrochloric Acid	Green	Green

CHEMICAL	COLOR CODE RATING	
	LATEX	NITRILE
Hydrofluoric Acid (48%)	Blue	Blue
Hydrogen Peroxide (30%)	Blue	Blue
Isopropyl Alcohol (99.5%)	Yellow	Yellow
Isopropanol (70%)	Yellow	Yellow
Lactic Acid (85%)	Green	Green
Methyl Alcohol	Green	Green
1-Methoxy 2-Propanol (99.5%)	Yellow	Green
Methyl Methacrylate	Blue	Yellow
Mineral Spirits	Red	Green
Morpholine	Green	Blue
Naphthalene	Yellow	Blue
Nitric Acid (70%)	Red	Red
Nitric Acid (10%)	Yellow	Green
Nitromethane (95.5%)	Red	Yellow
Nitropropane (95.5%)	Red	Yellow
Octane (99%)	Green	Green
Octanol (99+%)	Green	Green
Oleic Acid (99%)	Yellow	Green
Oxalic Acid	Green	Green
Palmitic Acid	Green	Green
Pentane (99%)	Red	Green
Phenol	Yellow	Yellow
Phosphoric Acid (85%)	Blue	Green
Potassium Hydroxide (50%)	Green	Green
Propyl Acetate	Yellow	Yellow
Propylene Glycol (99%)	Green	Green
Pyridine (99%)	Red	Red
Sodium Hydroxide (50%)	Green	Green
Stoddard Solvent	Red	Green
Styrene (99%)	Red	Yellow
Sulfuric Acid (47%)	Blue	Blue
Sulphuric Acid (95-98%)	Red	Red
Tetrachloroethylene (99.9%)	Red	Red
Toluene	Red	Yellow
Trichloroethylene	Yellow	Blue
Triethanolamine (98%)	Blue	Green
Turpentine	Yellow	Green
Xylene (98%)	Red	Yellow

Gloves offered by Hourglass International, Inc. meet or exceed ASTM standards where applicable.

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