

EH&S Alternative Glove Selection Guidance

This glove guidance outlines preferable alternatives to disposable nitrile gloves based on hazards or tasks. This guidance may change as the situation evolves and availability changes.

Hierarchy of risk of skin and hand hazards: Radiological → Chemical → Biological → No Hazards

Glove Options: 1. Disposable Nitrile, 2. Disposable Vinyl, 3. Disposable Latex, 4. Inner Latex or Vinyl **AND** Outer Reusable Heavy Duty Chemical Resistant Gloves

General Guidance:

- ***Do not use latex gloves if you are allergic – NOT FOR CLINICAL OR PATIENT CARE**
- Dexterity should be considered when selecting glove type based on available choices
- Contact UHS or Employee Health if latex allergies develop
- Glove thickness should be a minimum of 3mils. (A thickness of 3-4mils for most disposable gloves is sufficient for most tasks.)
- Look for ASTM or other international glove standards listed on the box, as well as a Lot number or expiration date to ensure glove meets minimum standards for quality
- If the glove cuff is too short, use a rubber band around your wrist and over your lab coat, to ensure your wrist is completely covered. You can also use sleeve protectors.

<u>Clinical Care:</u>	
<u>Disposable Nitrile</u>	<u>Disposable Vinyl</u>
<ul style="list-style-type: none"> • Clinicians working with patients on contact precautions (e.g., <i>C. difficile</i>, COVID-19, multi-drug resistant organisms, etc.) • Contact with blood or body fluid anticipated • Prolonged contact to mucous membranes anticipated • All Dentistry and dental procedures • Chemotherapy administration and handling • Use of High Level Disinfectants (HLDs – Cidex, Rapicide, i.e.) • Direct contact with clinical specimens or pathogens in the laboratory • Direct contact with radiological isotopes and nucleotides • All Pharmacy Compounding and drug manipulations 	<ul style="list-style-type: none"> • Providing routine patient care where gloving is required per the URMU Universal Gloving Policy but not necessarily in other healthcare settings • Performing activities without direct patient body fluid interaction: patient transportation, routine environmental cleaning, handling meal trays, routine handling of linens • Handling non-cytotoxic medications • Handling Specimen containers • Pharmacy repackaging of intact dosages and materials • Vinyl for general cleaning/sanitization for non-corrosive hospital-approved disinfectants (see the disinfecting chart below).

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<u>Laboratories:</u>			
<u>Disposable Nitrile</u>	<u>Disposable Vinyl</u>	<u>Inner disposable vinyl (or latex)</u> AND <u>Outer Reusable Heavy Duty Chemical Resistant Gloves</u>	<u>Latex*</u>
<ul style="list-style-type: none"> • Direct contact with clinical specimens, pathogens, and all agents assigned BSL-2 in the laboratory (preferred) • Chemotherapy and antineoplastic agents • Radiological isotopes 	<ul style="list-style-type: none"> • Direct contact with clinical specimens, pathogens, and all agents assigned BSL-2 in the laboratory (secondary preference) • Handling Specimen containers • Optics labs and handling • Disinfecting of common surfaces 	<ul style="list-style-type: none"> • Wet chemistry and chemical handling (viton butyl, neoprene, nitrile, LLDPE). <p>Use the Ansell glove database for information regarding permeation, degradation, and break-through time information for specific chemicals: https://www.ansellguardianpartner.com/chemical/home#hp</p>	<ul style="list-style-type: none"> • Direct contact with clinical specimens, pathogens, and all agents assigned BSL-2 in the laboratory (third preference)
<p>Disposal neoprene gloves are an additional alternative for wet chemistry and chemical handling based on the chemical hazards and availability. Consult the Ansell link above for chemical compatibility.</p>			

<u>Other University Locations:</u>	
<u>Disposable Vinyl</u>	<u>Other</u>
<ul style="list-style-type: none"> • General barrier protection (cashiers, transportation, soiled parts handling, etc.) • Vinyl for food service • Vinyl for general cleaning/sanitization for non-corrosive hospital-approved disinfectants (see the disinfecting chart below). • Vinyl with possible heavy-duty reusable gloves (nitrile, butyl, neoprene, etc.) for Environmental Service Workers 	<ul style="list-style-type: none"> • Heavy-duty reusable gloves for Facilities <ul style="list-style-type: none"> ○ Nitrile, butyl, neoprene, leather, or Mechanix type will be based on physical and chemical hazards present

For information regarding potential exposures or injuries, please see the EH&S website:

<http://www.safety.rochester.edu/labbiosafe/exposureprocedure.html>

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Disposable Gloves:

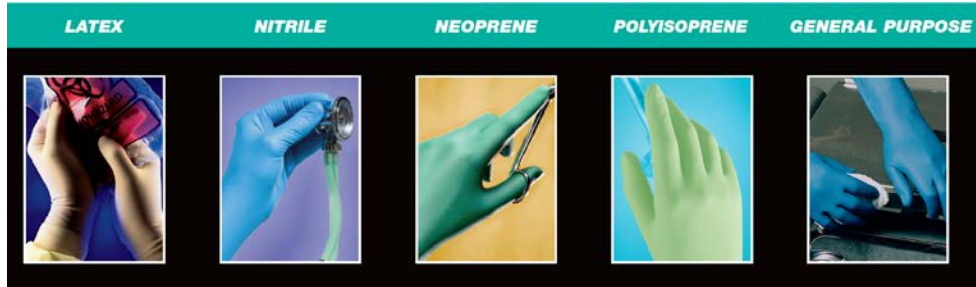


Photo from Ansell

Outer Reusable Heavy Duty Chemical Resistant Gloves:



Photo from Ansell

Hospital Approved Disinfectants That Can be Used With Vinyl Gloves:

Disinfectant:	Oxivir 1	Oxivir TB	Oxivir 1	Rescue Wipes/ Ready to Use Solutions	Virex II 256 Diluted Solution
Manufacturer:	Diversey	Diversey	Diversey	Virox Technologies Inc.	Diversey
Container:					
Product code:	100850923	4277285	100850916	23221 Wipes, 23105 Ready Made Solution	04332
Contact Time:	1 Minute	1 Minute	1 Minute	1 Minute	10 Minutes
Nitrile Gloves:	NO	NO	NO	No	NO
Eye protection:	NO	NO	NO	No	NO
Ready to Use?	YES	YES	YES	Yes	No, See Manufacturer's Instructions