

CHARACTERISTIC	LATEX	NITRILE	VINYL
<b>MATERIAL</b>	Natural rubber latex from the rubber tree. <i>Heven brazilliensis</i> .	A synthetic copolymer made up from monomers of carboxylic acid, acrylonitrile and butadiene.	Polyvinyl chloride, a synthetic co-polymer.
<b>BARRIER PROTECTION</b>	Natural rubber latex has good film formation properties and the natural rubber latex film provides superior barrier protection.	Nitrile latex film exhibits comparable barrier protection as natural rubber if the film is continuous.	Vinyl gloves contain up to 40% plasticizers in order to provide the soft feel. As such, vinyl gloves are the least elastic among the three materials and provide the worst barrier protection.
<b>STRENGTH</b>	Superior.	Excellent strength and puncture resistance.	Limited.
<b>ELASTICITY</b>	High levels of elasticity, memory and elongation provide excellent fit.	Medium to High conforming to the user's hand with use.	Low to Medium, with moderate flexibility. Lower elongation properties result in a loose-fitting glove.
<b>DURABILITY</b>	High resistant to tear and puncture. Have superior dynamic durability.	High resistant to puncture and tear. Exhibits moderate dynamic durability.	Poor dynamic durability that declines with use, resulting in medium to high in-use failure rates.
<b>CHEMICAL RESISTANCE (incidental exposure)</b>	Depending on the type of chemicals in contact. Generally good.	Depending on the type of chemicals. Generally good to excellent.	Depending on chemicals. Generally poor.
<b>GLUTARALDEHYDE USE</b>	Fair, AAMI recommended use for short-term, incidental contact only.	Excellent, recommended by AAMI.	Poor, not recommended by AAMI.
<b>COMPATIBILITY WITH LOTIONS</b>	Water-based only.	Water-based and petroleum-based.	Water-based and petroleum-based.
<b>POSSIBLE GLOVE</b>	• Immediate Type I	• Delay Type IV	• Plasticizers used in

<b>ASSOCIATED HEALTH RELATED REACTIONS</b>	<p>hypersensitibility caused by certain natural rubber latex proteins.</p> <ul style="list-style-type: none"> <li>• Delay Type IV hypersensitivity due to certain types of accelerators used in the vulcanization process.</li> </ul>	<p>hypersensitivity if certain types of accelerators are used.</p>	<p>vinyl gloves have shown to be carcinogenic.</p> <ul style="list-style-type: none"> <li>• Chemical Allergies (Type IV)</li> </ul>
<b>FIT AND COMFORT</b>	<p>Excellent, conforms to hand.</p>	<p>Good to Excellent, conforms to hand.</p>	<p>Fair, loose-fitting.</p>
<b>COST</b>	<p>Low to Moderate.</p>	<p>Moderate to High.</p>	<p>Low to Moderate.</p>
<b>RECOMMENDED USE</b>	<p>Optimal choice based on overall performance. Material strength supports use in high-risk situations and potential exposure to blood-borne pathogens.</p>	<p>Latex-like properties make this an ideal synthetic alternative for latex-sensitized individuals. Premier choice for use in high-risk situations, including infectious agents and most chemicals.</p>	<p>Low risk situations where exposure to blood-borne pathogens is limited and for short-term, minimal stress situations.</p>