



syntegra UV

syntegra preCision

syntegra green

syntegra IR

Material	Synthetic polyisoprene			
Accelerator	Accelerator-free	Accelerator system without DPG and thiuram		
Color	White	Creme	Green	Creme
Glove shape	Fully anatomical, with rolled rim			
Sterilisation	Radiation STERILE R			
Packaging	Left and right glove turned up cuff in inner pouch, ozone-tight, sealed in flat medical fibre-free peel pack.			
Labeling	EN 455-1/-2/-3/-4, EN 420, EN 421, EN ISO 374-1, EN 374-2, EN 556, EN 16523-1, EN 374-4, EN ISO 374-5, ISO 15223-1			

Intended use	Sterile, single-use surgical gloves Medical Device Class IIa Personal Protective Equipment Cat. III*			
as set out in MD Regulation (EU) 2017/745				
as set out in PPE Regulation (EU) 2016/425				

Article numbers	Size 5½	827058521	size 5½	3000016672	Size 5½	827053521	Size 5½	827056521
	Size 6	827058601	size 6	3000016673	Size 6	827053601	Size 6	827056601
	Size 6½	827058621	size 6½	3000016674	Size 6½	827053621	Size 6½	827056621
	Size 7	827058701	size 7	3000016675	Size 7	827053701	Size 7	827056701
	Size 7½	827058721	size 7½	3000016676	Size 7½	827053721	Size 7½	827056721
	Size 8	827058801	size 8	3000016677	Size 8	827053801	Size 8	827056801
	Size 8½	827058821	size 8½	3000016678	Size 8½	827053821	Size 8½	827056821
	Size 9	827058901	size 9	3000016679	Size 9	827053901	Size 9	827056901

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TYPE IV ALLERGIES: REDUCING THE RISK OF SENSITIZATION WITH DPG-FREE GLOVES

Skin diseases are one of the most common occupational illnesses in Europe.¹
The primary among these is contact dermatitis², which can be divided into irritant-toxic and allergic contact dermatitis (Type IV allergy).



Allergic Contact Dermatitis

Allergic contact dermatitis (ACD) is triggered by a cellular immune reaction. Approximately 20% of the population have a predisposition to this condition.^{3 4 5}

ACD often results in skin redness (erythema), itching, or burning eczema. In sensitized patients, the onset of symptoms typically takes 24 to 48 hours.





Allergy Despite Latex Exit?

Contact dermatitis accounts for 95% of work-related skin diseases.² It is prevalent in the healthcare sector³, with nurses and nursing assistants accounting for the largest share at 40%, followed by medical assistants (22%) and physicians (18%).⁶

Despite the transition to powder-free latex gloves and synthetic gloves since the turn of the millennium, resulting in a significant decline in latex allergy (Type I allergy), Type IV allergies such as allergic contact dermatitis have noticeably increased.⁷ In hospitals, the switch from latex to synthetic gloves has led to a rising number of contact allergies among employees who previously did not show hand dermatitis.^{7 8 9}

Allergic contact dermatitis caused by gloves is primarily attributed to sensitization to accelerators and other process chemicals.^{10 6}

Successful Risk Reduction with DPG-free and Accelerator-free Gloves

The most relevant allergens identified were thiuram and 1,3-diphenylguanidine (DPG), with the significance of DPG increasing significantly in recent years.^{7 11} Research suggests that DPG is particularly allergenic.^{7 12 13} Up to 86% of ACD patients tested positive for DPG, and 30% tested positive for thiuram.⁷



DPG-free Gloves recommended

It is advised to choose accelerators with low allergenic potential (e.g., long-chain or highly branched accelerators) or accelerators that are decomposed or broken-down during manufacture.⁷

Studies indicate that the presence of alcoholic solvents (e.g., from the use of hand sanitizers prior to donning sterile gloves) may increase the release of DPG.¹⁴

Therefore, the use of DPG-free gloves is recommended.

OUR SYNTHETIC AND DPG-FREE PORTFOLIO

Synthetic polyisoprene (IR) is chemically identical to natural rubber and therefore has the same physical properties as natural rubber. It is therefore ideal for the production of skin-friendly gloves, provided that appropriate accelerators are used.

HARPS Global exclusively offers DPG-free products in its portfolio and does not use Thiurams in glove production.



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FREE OF
NATURAL
LATEX



syntegra preCision

Innovative accelerator system

The reduced wall thickness of the sempermed® syntegra preCision provides an optimal balance between tactile sensitivity and surgical precision. It is suitable for a wide range of surgical applications, including microsurgical procedures. Thanks to its micro-textured surface and a special post-processing treatment, this surgical glove offers significantly improved control for better instrument handling. This ensures a consistently secure grip and high tactile sensitivity, even during delicate procedures.

FREE OF
NATURAL
LATEX



syntegra green

Innovative accelerator system

Our sempermed® syntegra green is the ideal underglove for sensitive skin. With a smoother surface structure and optimized fit, it is the perfect option to pair with sempermed® syntegra IR, sempermed® syntegra preCision or sempermed® syntegra UV. The green color allows early detection of fluids penetrating between the gloves, as the area around the perforation changes color.

FREE OF
NATURAL
LATEX



syntegra IR

Innovative accelerator system

This glove utilizes the advantageous combination of two multifunctional accelerators, a thermo-reactive xanthogenate (DIXP) and zinc diisononyldithiocarbamate (ZDNC), resulting in an exceptionally skin-friendly product. The xanthogenate decomposes without residue during glove manufacture. Additionally, ZDNC is highly soluble in rubber and hardly extractable through aqueous systems (e.g. sweat).

OUR DPG- AND LATEX-FREE PORTFOLIO

- For our conventionally crosslinked products (syntegra IR, syntegra green, syntegra preCision), we use an accelerator system consisting of a long-chain accelerator (from the dithiocarbamate group) in combination with a thermo-reactive molecule that decomposes residue-free during manufacturing.
- For highly sensitized users, we offer a product (syntegra UV) that completely avoids the use of vulcanization accelerators. Instead, crosslinking is achieved through UV light. This product is therefore ideal for people with Type IV allergies.

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syntegra UV

Accelerator-free

The sempermed® syntegra UV is the first anti-allergenic polyisoprene surgical glove that is not only latex-free but also completely free of vulcanization accelerators during production. This ensures a high level of safety and skin compatibility, with a comfort level similar to that of natural latex.

As a result, there are virtually no accelerator residues present in the glove that could trigger Type IV allergies, thus minimizing the Type IV allergy potential. Compared to other dithiocarbamate systems, the sempermed® syntegra IR/green and sempermed® syntegra preCision accelerator system is highly effective and significantly improves the properties of the vulcanized material.¹⁵