

PUREZERO*

Cleanroom Nitrile Gloves



**MANAGE YOUR CLEANROOM RISKS
WITH NEW HALYARD* PUREZERO*
NITRILE GLOVES**



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Because you're responsible for managing risks in your cleanroom operation, choosing the right cleanroom glove is critical.

Your gloves have a big job to do, protecting your workers as well as your product and your process. Plus you need a reliable supply to avoid operations disruption. That's why we created HALYARD* **PUREZERO*** Cleanroom Gloves.

PUREZERO* Cleanroom Gloves are ideal for applications that involve handling delicate equipment in microelectronics, semiconductors, optics, pharmaceutical and medical device manufacturing applications. In fact, they are specifically designed to meet the stringent requirements of cleanroom environments.

New **PUREZERO*** gloves are designed to exact standards, to help you:

- manage the risks associated with user comfort and protection
- manage product contamination
- manage supply chain disruption



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THE RISK: USER COMFORT AND PROTECTION

The accelerator-free¹ formulation of PUREZERO* Nitrile Cleanroom Gloves is the solution. It reduces the risk of allergies and skin irritation associated with accelerator chemicals in other nitrile gloves. As a result, **PUREZERO*** gloves are comfortable to wear, allowing workers to focus on their delicate tasks rather than their gloves.

PUREZERO* Cleanroom Nitrile Gloves are designed to protect workers with effective barrier protection against chemical splash, micro-organisms and viruses.

Our gloves are PPE Category III certified according to the following standards:

EN ISO 374-5:2016 Micro-organism and Virus Protection

EN ISO 374-1:2016/Type C K-Low Chemical Splash Protection

EN 420:2003 +A1:2009 General Requirements for Protective Gloves

EN ISO 374-4 Resistance to Degradation by Chemicals

THE RISK: PRODUCT CONTAMINATION

The solution is the consistent quality of PUREZERO* Cleanroom Gloves, ensuring low particle and endotoxin levels. HALYARD* **PUREZERO*** Gloves are manufactured and packaged at our ISO 9001 facility in state-of-the-art cleanrooms and are **recommended for ISO 3 cleanrooms or higher.** Our gloves are clean processed (washed repeatedly in deionized water) to ensure consistent control of low particles, extractables and endotoxin levels.

- Low Particle Levels (max 950 > 0.5µm/cm² for white gloves, max 1200 > 0.5µm/cm² for blue gloves)
- Sterility Assurance Levels (SAL) of 10⁻⁶ and an endotoxin level of 20 units/pair maximum
- AQL of 1.0 for pinholes
- Double bagged plus case liner

You can rely on consistent quality, with Certificates of Analysis (CoA), and Certificates of Irradiation (CoI) easily accessible online for every production lot. You can also find the Declaration of Conformity (DoC) documents showing compliance to applicable regulations and standards, all at www.halyardhealth.com/information.



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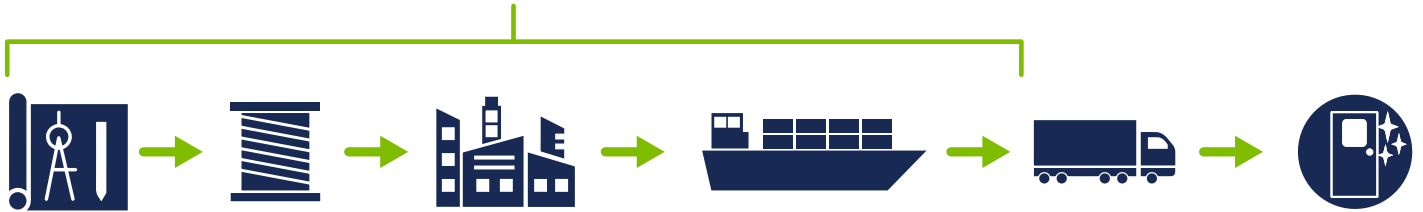
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THE RISK: SUPPLY CHAIN DISRUPTION

PUREZERO* Cleanroom Gloves are the solution, ensuring reliable supply, regulatory compliance and consistent quality.

HALYARD* has manufactured private label cleanroom gloves for more than 20 years at our Safeskin Medical & Scientific (Thailand) Ltd. manufacturing facility, which holds ISO 9001 and ISO 13485 certifications.

We control the materials and design while adhering to strict quality standards and product specifications in our own facilities, with our own teammates. Quality and sterility assurance levels are guaranteed, with all raw materials and components traceable to their original supplier. And with our global product codes, you can use **one code/SKU from HALYARD* globally at all of your production facilities.**



From raw materials to distribution, we have full control over our global supply chain.

RISK-FREE CONVERSION

With our years of cleanroom glove experience, HALYARD* can provide all the support you need to easily convert from your current glove to new **PUREZERO*** Cleanroom Gloves, including:

- **Technical documentation**
- **Validation data**
- **Product knowledge and expertise**

We also have the manufacturing capacity to assure you a reliable glove supply going forward.

To trial HALYARD* **PUREZERO*** Cleanroom Gloves, contact your Cleanroom Distributor today, or email us at info@hyh.com.



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NEW PUREZERO* CLEANROOM GLOVE PORTFOLIO

HALYARD* offers an accelerator-free¹ portfolio of three non-sterile and two sterile cleanroom gloves to address the needs of pharmaceutical, medical device, microelectronics and semi-conductor manufacturing industries.

NON-STERILE

HALYARD* PUREZERO* HG3 WHITE NITRILE GLOVES

Recommended for use in ISO Class 3 or higher cleanroom environments. **PUREZERO*** HG3 White Nitrile Cleanroom Gloves are non-sterile, ambidextrous, and 12 inches long with a high tack/grip surface and feature a beaded cuff to aid in donning and help prevent roll down.



Physical Properties

AQL	1.0
Non-Sterile	✓
Ambidextrous	✓
Tacky Outer Glove Finish	✓
Textured Fingertips	✓
Accelerator-Free	✓
Low Dermatitis Potential	✓
Latex-Free	✓
Powder-Free	✓
Silicone-Free	✓
Tensile Strength ²	20 MPa (Target)
Ultimate Elongation ²	600%
Shelf Life	3 Years

Cleanliness Properties

Max Particle Count	>0.5µm/cm ² <950	IEST RP-CC005
Ionic Content (Extractable ions)	Max Level (µg/g)	IEST RP-CC005
Calcium	50	
Chloride	35	
Magnesium	5	
Nitrate	20	
Potassium	5	
Sodium	10	
Sulfate	10	
Zinc	25	
Ammonium	5	

For use in ISO 3
or higher
TACKY FINISH

Ordering Information

Size	Code
XS	CLN3031XS
SM	CLN3031SM
MD	CLN3031MD
LG	CLN3031LG
XL	CLN3031XL

HALYARD* PUREZERO* HG3 LIGHT BLUE NITRILE GLOVES

Recommended for use in ISO Class 3 or higher cleanroom environments. **PUREZERO*** HG3 Light Blue Nitrile Cleanroom Gloves are non-sterile, ambidextrous, and 12 inches long with a high tack/grip surface and feature a beaded cuff to aid in donning and help prevent roll down.



Physical Properties

AQL	1.0
Non-Sterile	✓
Ambidextrous	✓
Tacky Outer Glove Finish	✓
Textured Fingertips	✓
Accelerator-Free	✓
Low Dermatitis Potential	✓
Latex-Free	✓
Powder-Free	✓
Silicone-Free	✓
Tensile Strength ²	20 MPa (Target)
Ultimate Elongation ²	600%
Shelf Life	3 Years

Cleanliness Properties

Max Particle Count	>0.5µm/cm ² <1200	IEST RP-CC005
Ionic Content (Extractable ions)	Max Level (µg/g)	IEST RP-CC005
Calcium	50	
Chloride	35	
Magnesium	5	
Nitrate	20	
Potassium	5	
Sodium	10	
Sulfate	10	
Zinc	25	
Ammonium	5	

For use in ISO 3
or higher
TACKY FINISH

Ordering Information

Size	Code
XS	CLN9031XS
SM	CLN9031SM
MD	CLN9031MD
LG	CLN9031LG
XL	CLN9031XL

PUREZERO*

Cleanroom Nitrile Gloves

NON-STERILE (Continued)

HALYARD* PUREZERO* HG3 SMOOTH WHITE NITRILE GLOVES

Recommended for use in ISO Class 3 or higher cleanroom environments. PUREZERO* HG3 SMOOTH White Nitrile Cleanroom Gloves are non-sterile, ambidextrous, and 12 inches long with a smooth finish and feature a beaded cuff to aid in donning and help prevent roll down.



Physical Properties

AQL	1.0
Non-Sterile	✓
Ambidextrous	✓
Smooth Outer Glove Finish	✓
Textured Fingertips	✓
Accelerator-Free	✓
Low Dermatitis Potential	✓
Latex-Free	✓
Powder-Free	✓
Silicone-Free	✓
Tensile Strength ²	20 MPa (Target)
Ultimate Elongation ²	600%
Shelf Life	3 Years

Cleanliness Properties

Max Particle Count	>0.5µm/cm ² <950	IEST RP-CC005
Ionic Content (Extractable ions)	Max Level (µg/g)	IEST RP-CC005
Calcium	50	
Chloride	35	
Magnesium	5	
Nitrate	20	
Potassium	5	
Sodium	10	
Sulfate	10	
Zinc	25	
Ammonium	5	

For use in ISO 3
or higher
SMOOTH FINISH

Ordering Information

Size	Code
XS	CLN3231XS
SM	CLN3231SM
MD	CLN3231MD
LG	CLN3231LG
XL	CLN3231XL



PUREZERO*

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STERILE

HALYARD* PUREZERO* HG3 LIGHT BLUE STERILE NITRILE GLOVES

Recommended for use in ISO Class 3 or higher cleanroom environments. **PUREZERO*** HG3 Light Blue Sterile Nitrile Cleanroom Gloves have a hand specific shape, 4-mil fingertip thickness, 12-inch length with a smooth finish, and a beaded cuff to aid in donning and help prevent roll down.



Physical Properties

AQL	1.0
Sterile	✓
Hand Specific Pairs	✓
Smooth Outer Glove Finish	✓
Textured Fingertips	✓
Accelerator-Free	✓
Low Dermatitis Potential	✓
Latex-Free	✓
Powder-Free	✓
Silicone-Free	✓
Tensile Strength ²	20 MPa (Target)
Ultimate Elongation ²	600%
Sterility Assurance Level (SAL)	10 ⁻⁶
Shelf Life	3 Years

Cleanliness Properties

Max Particle Count	>0.5µm/cm ² <1200	IEST RP-CC005
Max Endotoxin Level	<20 EU	
Ionic Content (Extractable ions)	Max Level (µg/g)	IEST RP-CC005
Calcium	50	
Chloride	35	
Magnesium	5	
Nitrate	20	
Potassium	5	
Sodium	10	
Sulfate	10	
Zinc	25	
Ammonium	5	

For use in ISO 3
or higher

SMOOTH FINISH
SAL 10⁻⁶

Ordering Information

Size	Code
6.0	60
6.5	CLN923265
7.0	CLN923270
7.5	CLN923275
8.0	CLN923280
8.5	CLN923285
9.0	CLN923290
10.0	CLN923210

HALYARD* PUREZERO* HG3 WHITE STERILE NITRILE GLOVES

Recommended for use in ISO Class 3 or higher cleanroom environments. **PUREZERO*** HG3 White Sterile Nitrile Cleanroom Gloves have a hand specific shape, 6-mil fingertip thickness, 12-inch length with a smooth finish, and beaded cuff to aid in donning and help prevent roll down.



Physical Properties

AQL	1.0
Sterile	✓
Hand Specific Pairs	✓
Smooth Outer Glove Finish	✓
Textured Fingertips	✓
Accelerator-Free	✓
Low Dermatitis Potential	✓
Latex-Free	✓
Powder-Free	✓
Silicone-Free	✓
Tensile Strength ²	20 MPa (Target)
Ultimate Elongation ²	600%
Sterility Assurance Level (SAL)	10 ⁻⁶
Shelf Life	3 Years

Cleanliness Properties

Max Particle Count	>0.5µm/cm ² <950	IEST RP-CC005
Max Endotoxin Level	<20 EU	
Ionic Content (Extractable ions)	Max Level (µg/g)	IEST RP-CC005
Calcium	50	
Chloride	35	
Magnesium	5	
Nitrate	20	
Potassium	5	
Sodium	10	
Sulfate	10	
Zinc	25	
Ammonium	5	


For use in ISO 3
or higher

SMOOTH FINISH
SAL 10⁻⁶

Ordering Information

Size	Code
6.0	CLN323260
6.5	CLN323265
7.0	CLN323270
7.5	CLN323275
8.0	CLN323280
8.5	CLN323285
9.0	CLN323290
10.0	CLN323210

GLOVE SELECTION GUIDE

	Description	Designed for	Max Particle Count	ISO Class	Finish	Double Donning	Size Range	Fingertip Thickness	Case Count
NON-STERILE	HALYARD* PUREZERO* HG3 White Nitrile Gloves	semiconductor pharmaceutical medical device manufacturing	<950	Class 3 or higher	Tacky	Recommended for outer glove	XS-XL	.16mm (6 mil)	1000/cs
	HALYARD* PUREZERO* HG3 Light Blue Nitrile Gloves	semiconductor pharmaceutical medical device manufacturing	<1200	Class 3 or higher	Tacky	Recommended for outer glove	XS-XL	.10mm (4 mil)	1500/cs
	HALYARD* PUREZERO* HG3 SMOOTH White Nitrile Gloves	semiconductor pharmaceutical medical device manufacturing	<950	Class 3 or higher	Smooth	outer or under	XS-XL	.16mm (6 mil)	1000/cs
STERILE	HALYARD* PUREZERO* HG3 Light Blue Sterile Nitrile Gloves	pharmaceutical biotechnology sterile compounding aseptic processing	<1200	Class 3 or higher	Smooth	outer or under	6.0 6.5 7.0 7.5 8.0 8.5 9.0 10.0	.10mm (4 mil)	300 pairs/cs
	HALYARD* PUREZERO* HG3 White Sterile Nitrile Gloves	pharmaceutical biotechnology sterile compounding aseptic processing	<950	Class 3 or higher	Smooth	outer or under	6.0 6.5 7.0 7.5 8.0 8.5 9.0 10.0	.16mm (6 mil)	200 pairs/cs
Applies to all PUREZERO* Gloves:		Textured Fingertips Accelerator-Free ¹ Low Dermatitis Potential	AQL 1.0	CE 2797 (PPE Cat. III)	ISO 374-5:2016 VIRUS	ISO 374-1:2016/Type C K-Low Chemical			

For more information or samples, contact your distributor or visit: www.halyardhealth.com/cleanroom

¹ Not formulated with these commonly used vulcanizing chemicals: Sulfur, Thiurams, Thioxoles, Guanidines and Carbamates.

² Tested per ASTM D6319, EN 455-2

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