BioClean™

Emerald BENS

Sterile Disposable Nitrile Cleanroom Glove

Chemical-resistant sterile nitrile cleanroom gloves, perfect for skilled handling

- **Chemical protection:** BioClean™ Emerald BENS are resistant to a range of chemicals and chemotherapy drugs (PPE Category III, EN ISO Type B, ASTM D6978)
- **Reduced allergy risk:** The gloves are powder-free, latex-free and accelerator-free minimizing allergy risks, notably Type I latex and Type IV chemical allergies and sensitivities
- **Clean processed:** BioClean™ Emerald BENS undergo deionized washing to further reduce surface particulates, ionic extractables and non-volatile residues

KEY FEATURES & BENEFITS

- **Double gloving properties:** Ideal as undergloves for double gloving requirements
- **Enhanced dexterity:** Hand specific design for ergonomic fit and better handling during skilled tasks
- **Sterility Assurance:** Gamma sterilized with sterility assurance level (SAL) of 10-6

Industries

- Biotechnology Manufacturing
- Controlled and Critical Environments
- Laboratory Research and Development
- Medical Device Manufacturing
- Pharmaceutical Manufacturing
- Production and Manufacturing

Recommended For

- Chemical Splash
- Sterile Processing Department
- Chemical Handling
- Biotechnologies Blending operations
- Transferring liquids and solids
- Sample taking and processing
- Aseptic filling and labelling

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TECHNICAL DATA SHEET

	Product Information
Material	Nitrile
Color	Green
Shape	Hand Specific
Cuff	Beaded
Manufacturing/QMS Audit Standards	ISO 14001, Manufacturing QMS Audit Standards ISO 9001, PPE Regulation 2016 425 Module D, NEBB Certified Cleanrooms
Regulatory/Standard Compliance	ASTM D6978, CE 0493, EN 421:2010, EN 455 Part 2, EN ISO 21420:2020, EN ISO 374-1:2016, EN ISO 374-5:2016, Food Contact, Category III, UKCA
Packaging	1 pair per inner wrap; 1 inner wrap per pouch; 10 pouches per outer bag; 20 outer bags per lined carton (200 pairs) **More sustainable packaging:** These sterile nitrile gloves are packed in recyclable plastic packaging* and delivered in recycled cardboard shipper cases. *Inner wrap, pouch, bag and liner are made from polyethylene (PE) based film. Always check your local recyclable status as these materials may not be considered suitable for recycling in your location.
Storage	Keep away from direct sunlight; store in a dry place and keep in the original packaging. Keep away from ozone sources. If products are properly stored, as indicated, they won't lose their performances or change characteristics significantly. If products could be affected by ageing or storage, the expiry date is mentioned on the packaging materials.
Country of Origin	Malaysia
Available sizes	6, 6.5, 7, 7.5, 8, 8.5, 9
Powder Content	Powder-Free
External Glove Surface	Smooth with Micro-Textured Finish
Internal Glove Surface	Chlorinated
Sterilization Method	Gamma Irradiation
Sterilization Minimum Dose	25kGy
Sterility Assurance Level	10^{-6}
Cleanroom Class	Class 10/ISO Class 4 & EU GMP Grade A/B and other sterile cleanrooms
Shelf Life	Five (5) years from date of manufacture.
Tested for use with Chemotherapy Drugs	Yes
Protein Level	N/A: contains no natural rubber latex
Anti-static	Yes

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Physical Properties								Testing Method
Sizes	6	6.5	7	7.5	8	8.5	9	EN ISO 21420
Typical Length (mm/in)	300 / 12							
Palm Width (mm/in)	77/3.0	83/3.3	89/3.5	95/3.7	102/4.0	108/4.3	114/4.5	
Freedom from Holes	1.5 AQL Performance							EN 374-2
Typical Particle Count ≥0.5µm (counts / cm^2)	<1200							IEST-RP-CC005.4
Target Single Wall Palm Thickness (mm/mil)	0.11 / 4.33							EN 455-2
Target Single Wall Finger Thickness (mm/mil)	0.15 / 5.90							EN 455-2
Target Single Wall Cuff Thickness (mm/mil)	0.08 / 3.15							EN 455-2
Ultimate tensile strength (MPa) During Aging	Min. 15							ASTM D412-06a
Force at Break (N) During Aging	≥ 6N							EN 455-2

IONIC CONTENT

Concentration in µg/cm^2	Typical	Concentration in µg/cm^2	Typical
Ammonium	Available On File	Nitrate	<0.25
Bromide	<0.01	Nitrite	Available On File
Calcium	<0.60	Phosphate	<0.01
Chloride	<0.35	Potassium	<0.08
Fluoride	<0.01	Sodium	<0.05
Lithium	<0.01	Sulphate	<0.05
Magnesium	<0.01	Zinc	<0.10

ORDERING INFORMATION

SIZE	6	6.5	7	7.5	8	8.5	9
REORDER NO.	BENS6.0	BENS6.5	BENS7.0	BENS7.5	BENS8.0	BENS8.5	BENS9.0

PERFORMANCE STANDARDS AND REGULATORY COMPLIANCE

CE 0493 EN 421 EN ISO 374-1:2016 Type B KPT EN ISO 374-5 VIRUS UK CA

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