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

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## Sterile Disposable Nitrile Cleanroom Glove

## 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)<br><br>**More sustainable packaging:** These sterile nitrile gloves are packed in recyclable plastic packaging* and delivered in recycled cardboard shipper cases.<br><br>*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. |
| Available sizes | 6, 6.5, 7, 7.5, 8, 8.5, 9, 10 |
| 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 | 5 Years |
| Tested for use with Chemotherapy Drugs | Yes, in accordance with ASTM D6978 |
| Protein Level | Not Applicable: contains no natural rubber latex |
| Anti-static | Yes |

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## Sterile Disposable Nitrile Cleanroom Glove

| Physical Properties | | | | | | | | | Testing Method |
|---|---|---|---|---|---|---|---|---|---|
| Sizes | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 10 | EN ISO 21420 |
| Typical Length (mm/in) | 300 / 12 | | | | | | | | |
| Palm Width (mm/in) | 79/3.1 | 84/3.3 | 89/3.5 | 95/3.7 | 101/4.0 | 108/4.2 | 115/4.5 | 124/4.9 | |
| Freedom from Holes | 1.5 AQL | | | | | | | | EN 374-2 |
| Typical Particle Count ≥0.5µm (counts / cm²) | <1200 | | | | | | | | IEST-RP-CC005.4 |
| Force at Break (N) During Aging | ≥ 6N | | | | | | | | EN 455-2 |

## IONIC CONTENT

| Concentration in µg/cm² | Typical | Concentration in µg/cm² | 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 | 10 |
|---|---|---|---|---|---|---|---|---|
| REORDER NO. | BENS6.0 | BENS6.5 | BENS7.0 | BENS7.5 | BENS8.0 | BENS8.5 | BENS9.0 | BENS10.0 |

## 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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