

## Non-sterile accelerator-free cleanroom gloves, made from soft, yet durable, nitrile

- **Assured cleanliness:** Nitrilite™ 93-401 protective gloves are specially designed for use in Class 10 (ISO 4) cleanroom environments
- **Improved product protection:** Made from a soft, yet durable, nitrile formulation, these cleanroom gloves are also low in ionic content and feature low particulate levels, for assured product protection
- **Reduced allergy risks:** In addition, these nitrile gloves are free of latex proteins and chemical accelerators, eliminating the risk of Type I and Type IV allergic reactions



### KEY FEATURES & BENEFITS

- **Class 10 (ISO 4) cleanroom compatibility:** Assured cleanliness
- **Low ionic content and particulate levels:** Superb product protection
- **Latex-free, accelerator-free:** Type I and Type IV allergy risks eliminated

#### Industries

- Biotechnology Manufacturing
- Medical Device Manufacturing
- Electronics manufacturing

#### Recommended For

- Clean room cleaning and preparing
- Blending, compounding solids and liquids
- Spill or leakage cleanup
- Transferring liquids and solids
- Loading centrifuges and chromatography columns
- Assembly of parts
- Weighing and dispensing of solid and liquid raw materials

## TECHNICAL DATA SHEET

|  | Product Information  |
|--|--|
| Material                               | Nitrile  |
| Color                                  | Natural  |
| Shape                                  | Ambidextrous   |
| Cuff                                   | Beaded   |
| Manufacturing/QMS Audit Standards      | ISO 9001:2015  |
| Regulatory                             | Category III, EN ISO 21420:2020, EN ISO 374-1:2016, EN ISO 374-5:2016, FDA21 CFR 177-2600-US Food Contact Approved   |
| Packaging                              | 50 gloves per inner bag ; 2 inner bags per master polybag ; 10 master polybags per (1000 gloves) per liner bag   |
| 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                        | XS (5-5.5), S (6-6.5), M (7-7.5), L (8-8.5), XL (9-9.5), XXL (10-10.5)   |
| Powder Content                         | Powder-Free  |
| External Glove Surface                 | Textured Fingers   |
| Internal Glove Surface                 | Powder-Free, Chlorinated   |
| Cleanroom Class                        | Class 10/ISO 4   |
| Shelf Life                             | 5 Years  |
| Tested for use with Chemotherapy Drugs | Yes  |
| Protein Level                          | N/A: contains no natural rubber latex  |
| Anti-static                            | Yes EN1149   |
| Vulcanization Chemical Accelerators    | <ul style="list-style-type: none"> <li>None</li> </ul>   |

# Nitrilite®

## 93-401

### Non-sterile Disposable Nitrile Cleanroom Glove

| Physical Properties  |                                 | Testing Method          |
|--|---------------------------------|-------------------------|
| Typical Length (mm/in)   | 300 / 12                        | EN ISO 21420 ASTM D3767 |
| Freedom from Holes   | 1.5 AQL                         | EN 455-1/ASTM D3577     |
| Typical Particle Count $\geq 0.5\mu\text{m}$ (counts / $\text{cm}^2$ ) | < 400 particles / $\text{cm}^2$ | IEST-RP-CC005.4         |
| Target Single Wall Palm Thickness (mm/mil)                             | 0.11 / 4.3                      | EN ISO 21420/ASTM D3767 |
| Target Single Wall Finger Thickness (mm/mil)                           | 0.16 / 6.3                      | EN ISO 21420/ASTM D3767 |
| Target Single Wall Cuff Thickness (mm/mil)                             | 0.08 / 3.2                      | EN ISO 21420/ASTM D3767 |
| Ultimate tensile strength (MPa) Before Aging                           | $\geq 18$                       | ASTM D412-06a           |
| Ultimate tensile strength (MPa) During Aging                           | N/A                             | ASTM D412-06a           |

## IONIC CONTENT

| Concentration in $\mu\text{g}/\text{cm}^2$ | Typical | Concentration in $\mu\text{g}/\text{cm}^2$ | Typical |
|--|---------|--|---------|
| Calcium                                    | 0.175   | Potassium                                  | 0.006   |
| Chloride                                   | N/A     | Sodium                                     | 0.012   |
| Lithium                                    | 0.0001  | Sulphate                                   | 0.004   |
| Magnesium                                  | 0.001   | Zinc                                       | 0.017   |
| Nitrate                                    | 0.048   |  |         |

## PERFORMANCE STANDARDS AND REGULATORY COMPLIANCE



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