

**SMART GLOVE™**

NOW WE HAVE THE ...

**FIRST  
EVER**

**SMART  
METAL  
DETECTABLE  
NITRILE  
GLOVES  
IN THE  
MARKET !**



A precaution against possible physical contamination.

Manufactured by:

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## PRODUCT RECALLS

Can you imagine receiving "Product Recall" notice from USFDA / local authority? Corporations need to go through recall of the packaged food, the logistic and disposal arrangement, compensation and many other expenses incurred.

# NOW YOU CAN

always rely on our **Smart Metal Detectable Gloves** in food processing/ food handling/ packaging as part of your quality assurance and safety program. A precaution against possible physical contamination.



## APPLICATIONS

The Smart Metal Detectable Nitrile Gloves are:

- Free of plasticiser
- Food Contact safe
- Comfortable to wear

Thus, they are most helpful for the following industries:

- Food Processing – processes to transform raw ingredients into food for consumption.
- Food Preparation – includes all delicate preparation processes.
- Food Packaging – the final step to protect food products from contaminations.

## FEATURES & ATTRIBUTES OF SMART METAL DETECTABLE NITRILE GLOVES:

- It provides dexterity and strength, with metal detection features.
- Powder-free Nitrile, free from latex-induced skin allergic reactions.
- Detection sensitivity of an iron ball (Fe) having a diameter of 0.5 mm.
- Comparison of Sensitivity:

| Glove Type               | Thickness | Detection ( 5 mm <sup>3</sup> ) |
|--------------------------|-----------|---------------------------------|
| Vinyl Blue               | 3 mil     | No                              |
| Smart Glove Nitrile Blue | 3 mil     | Yes                             |

- Working frequency: 50kHz to 1MHz of electromagnetic field.

## PRODUCT SPECIFICATION

| Powder Free Nitrile Gloves    | Weight (g)   | Thickness (mm) |           |           | Tensile Strength * |                     | Elongation at Break * |                   |
|-------------------------------|--------------|----------------|-----------|-----------|--------------------|---------------------|-----------------------|-------------------|
|                               |              | Finger         | Palm      | Cuff      | Min (MPa)          | Typical Value (MPa) | Min (%)               | Typical Value (%) |
| 9" (3mil) Finger Textured     | (M) 3.5±0.02 | 0.08±0.02      | 0.06±0.02 | 0.05±0.02 | Min. 20            | 23 - 28             | Min. 600              | 650 - 700         |
| 9" (5mil) Finger Textured     | (M) 5.5±0.2  | 0.13±0.02      | 0.10±0.02 | 0.08±0.02 | Min. 20            | 23 - 28             | Min. 600              | 650 - 700         |
| 12" (5mil) Finger Textured    | (M) 7.5±0.2  | 0.13±0.02      | 0.10±0.02 | 0.09±0.02 | Min. 20            | 23 - 28             | Min. 600              | 650 - 700         |
| 16" (5mil) Finger Textured    | (M) 10±0.2   | 0.13±0.02      | 0.10±0.02 | 0.09±0.02 | Min. 20            | 23 - 28             | Min. 600              | 650 - 700         |
| 9" (7mil) Finger Textured     | (M) 7.5±0.2  | 0.17±0.02      | 0.12±0.02 | 0.11±0.02 | Min. 20            | 23 - 28             | Min. 600              | 650 - 700         |
| 9" (7mil) Diamond Textured    | (L) 8.8±0.2  | 0.17±0.02      | 0.12±0.02 | 0.11±0.02 | Min. 20            | 23 - 28             | Min. 600              | 650 - 700         |
| 9" (7mil) Fish-Scale Textured | (L) 8.8±0.2  | 0.17±0.02      | 0.12±0.02 | 0.11±0.02 | Min. 20            | 23 - 28             | Min. 600              | 650 - 700         |

\* (tested according to ASTM D412 standards)

Length, weight and thickness can be custom made for your industry.

Available in full black and double-tone (blue outer layer, black donning layer).

## APPLICABLE STANDARD COMPLIANCE

| Standards                  | Description   | Requirement  |
|----------------------------|---|--|
| ASTM D7329-07              | Standard Specification for Food Preparation and Food Handling (Food Service) Gloves | ASTM D6124, 21 CFR Parts 170 - 199 (as applicable), AQL                                  |
| ISO 14285:2014             | Rubber and plastics gloves for food services - Limits for extractable substances    | Heavy metals, potassium permanganate consumption, evaporation residue, phthalate content |
| Regulation (EU) No 10/2011 | On plastic materials and articles intended to come into contact with food           | Specific migration limit, overall migration limit  |
| 2012 No. 2619              | The Materials and Articles in Contact with Food (England) Regulations 2012          | Regulation (EU) No 10/2011 as stated in the Schedule                                     |

The metal detectable nitrile gloves are to be in compliance with the above standards.

Other specific local regulatory requirements can be fulfilled upon request.

| Property                | mg / dm <sup>2</sup> | Regulation (EU) No. 10/2011 - Annex III |
|-------------------------|----------------------|---|
| Overall Migration Limit | Below 10             | Food simulant B                         |
|                         | Below 10             | Food simulant D1                        |

Tested according to EN 1186 and 10/2011 regulations - overall migration limit.

