Core Nitrile Powder Free Gloves Technical Data Sheet

(Regular and Long Cuff)

Core Nitrile Powder Free Disposable Glove is used as a great barrier protection against a wide range of chemicals and dangerous substances. A dependable protection for tougher jobs from the laboratory to cleaning, maintenance, and general applications. Made of premium compounded nitrile eliminating latex allergy concern. It comes with excellent fit, comfort, sensitivity and protection. Its textured surface helps to provide secure grip and added handling precision.

1. Product Specification

Material:	Synthetic Nitrile Latex
Type:	Powder free, non-sterile
Color:	Blue
Design and Features:	Finger textured (regular cuff) or Palm textured (long cuff) surface, Ambidextrous, Beaded cuff, Online single chlorinated or Polymer coated, Excellent chemical, and Puncture resistance.
Size:	XS, S, M, L, and XL
Weight:	Regular Cuff (3.5gm), Long Cuff (6.2gm) Size M (+/- 0.2)
Storage:	The gloves shall maintain their properties when stored in a dry condition. Avoid direct sunlight.
Shelf Life:	The gloves shall have shelf life of 5 years from the date of manufacture with the above storage condition.
Application:	Laboratory workers, Food and chemical handlers, Cleaning & Maintenance Purpose, General Use, Estheticians.
Packing Style:	100 gloves x 10 dispensers x 1 carton

2. Quality Performance

Quality Standards

- Manufactured under QSR (GMP), ISO 9001:2015 and ISO 13485:2016 Quality Management System.
- Conforms to ASTM D6319, EN455 Standards.
- Complies to PPE Regulation (EU) 2016/425 requirements.

Functional Benefits

- A good barrier protection against chemicals and dangerous substances.
- An alternative solution for individuals who are allergic to Natural Rubber Latex.
- Free from latex protein, eliminating Type I Immediate Hypersensitivity reaction.
- Custom design enhanced comfort and fit.
- Finger or palm textured enhanced wet and dry grip with added handling precision.
- Chlorinated or polymer powder free interior promote smooth donning & doffing experience.

3. Physical Dimension & Physical Properties

Physical Dimension

Regular Cuff

Size	Length (mm)	Palm width (mm)	Thickness: Single wall	Reference Standard
XS	Min 240	76 ± 3	Finger: 0.08 to 0.11 mm (3.1 to 4.3 mil) Palm: 0.06 to 0.07 mm (2.4 to 2.8 mil)	ASTM D6319-19
S		84 ± 3		
M		94 ± 3		
L		105 ± 3		
XL		113 ± 3		
XXL		123 ± 3		

Long Cuff

Size	Length (mm)	Palm width (mm)	Thickness: Single wall	Reference Standard
XS	300 ± 10	76 ± 3	Finger: 0.13 to 0.15 mm (5.1 to 5.9 mil) Palm: 0.10 to 0.11 mm (3.9 to 4.3 mil)	ASTM D6319-19
S		84 ± 3		
M		94 ± 3		
L		105 ± 3		
XL		113 ± 3		

Physical Properties

Description	Before Aging	After Aging	Reference Standard
Elongation at Break, %	Min 500 Typical value: 500 to 650	Min 400 Typical value: 400 to 550	ASTM D6319-19
Tensile Strength, MPa	Min 14	Min 14	

	Typical value: 14 to 18	Typical value: 14 to 18	

4. Product Safety Conformance

CHEMICAL RESIDUE TESTED **PASS**

Purpose: To ensure the gloves are free from any chemical substances and safe to use.

Chemical Test (s)	Test Results (µg/g)
Butylated Hydroxyanisole (BHA)	Not Detected
Butylated Hydroxytoluene (BHT)	Not Detected
Diphenyl Guanidine (DPG)	Not Detected
Diphenyl Thiourea (DPT)	Not Detected
Mercaptobenzothiazole (MBT)	Not Detected
Tetramethylthiuram Disulphide (TMTD)	Not Detected
Zinc Dibutyldithiocarbamate (ZDBC)	Not Detected
Zinc Diethyldithiocarbamate (ZDEC)	Not Detected
Zinc Dimethyldithiocarbamate (ZDMC)	Not Detected
Zinc Mercaptobenzimidazole (ZMBI)	Not Detected
Zinc Mercaptobenzothiazole (ZMBT)	Not Detected
Zinc Pentamethyleneditithiocarbamate (ZPMC)	Not Detected

PHTHALATES TESTED **PASS**

Purpose: To ensure the gloves are free from any chemical substances and safe to use.

Chemical Test (s)	Test Results (µg/g)
Dibutyl Phthalate (DBP)	Not Detected
Di(2-ethylhexyl) Phthalate (DEHP)	Not Detected
Di-n-octyl Phthalate (DNOP)	Not Detected
Di-isononyl Phthalate (DINP)	Not Detected
Di-isodecyl Phthalate (DIDP)	Not Detected
Benzyl butyl Phthalate (BBP)	Not Detected

HEAVY METAL TESTED **PASS**

Reference: EPA Method 3052

Purpose: To ensure the gloves are free from heavy metal substances and safe to use.

Chemical Test (s)	Test Results (µg/g)
Cadmium (Cd)	Not Detected
Lead (Pb)	Not Detected
Mercury (Hg)	Not Detected
Arsenic (As)	Not Detected
Antimony (Sb)	Not Detected
Tin (Sm)	Not Detected

5. Others

Freedom from Holes

The sample size and allowable number of non-conforming gloves in the samples shall be determined in accordance to Sampling Plan ISO 2859-1 Single Normal using inspection and acceptable quality level as stated in Section II: Performance Requirements.

Visual Defects

The sample size and allowable number of non-conforming gloves in the samples for both major and minor defects shall be determined in accordance to Sampling Plan ISO 2859-1 Single Normal using inspection and acceptable quality level as stated in Section II: Performance Requirements.

Packaging Defects

The Sample size and allowable number of non-conforming in the samples for regulatory, visual and critical packaging defects shall be determined in accordance to Sampling Plan ISO 2859-1 Single Normal using inspection and acceptable quality level as stated in Section II: Performance Requirements Gloves Counting=100 pcs by count per Dispenser.

Powder Free Residue

Maximum 2 mg per glove *(Reference Standard: ASTM D6319-19, ASTM D6124-06 (2017))*