

MATERIAL SAFETY DATA SHEET

1) PRODUCT IDENTIFICATION

Product Name : Nitrile Powder-Free Exam Gloves
Chemical Family : Nitrile
Chemical Name : None

Chemical Hazard rating : Health 1
: Flammability 0
: Reactivity 0

2) HAZARDOUS INGREDIENTS

No significant hazardous ingredients.

Chemical Composition: Acrylonitrile Butadiene Rubber Nitrile Latex, Zinc Oxide, Zinc Dibutyldithiocarbamate, Antioxidant, Sulfur, Titanium Dioxide.

3) PHYSICAL DATA - Composition

Nitrile Latex	95.0 - 98.0%
Ammonium	0.01 - 0.20%
Teric 320	0.10 - 0.20%
Zinc Oxide	1.8% - 2.80%
ZDEC (Zinc diethyldithiocarbamate)	0.50% - 1.20%
Sulphur	0.60 - 1.30%
Titanium Dioxide	2.0% - 3.0%
Potassium Hydroxide	0.50 - 0.80%

A coagulant additive is used as mould release agent It is used as a lubricant on gloves to facilitate stripping of gloves and Polymer is used to reduce the friction of the inside of gloves, and to make donning easier.

4) FIRE AND EXPLOSION

Stability: Stable. Material will not support combustion.

Extinguishing Media: Foam, Carbon Dioxide, Dry Powder, Water Spray

5) REACTIVITY DATA

Stability:	Stable when stored in dry and cool room.
Hazardous Polymerization:	None.
Conditions to Avoid:	Freezing and extreme heat.
Incompatibility (Materials to Avoid):	Hydrocarbon solvents and some types of oil.
Hazardous Decomposition Products:	Oxides of carbon, nitrogen and sulfur.

6) First Aid Procedure:

If systemic reactions occur, discontinue use and seek emergency treatment.

7) PRECAUTION

This product contains Acrylonitrile Butadiene Rubber which may cause allergic reactions. Other components used in making gloves may also cause allergic reactions in some individuals. If user or a patient are allergic to Nitrile or experience any discomfort, discontinue use immediately and consult with a physician.

Do not reuse gloves. They are not intended for use as a chemical barrier

8) Storage

Store in original packing in a cool, dry and well ventilated area, away from dust, sunlight, moisture, X-ray, and excessive heat above 100°F (37°C).



Glovetex Co. Ltd - Specification

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Specification #:

DE333-110, DE 334-110, DE 344-110

Date:

June 1, 2010

Revision:

0

Name:

Glovetex Food Grade Nitrile Glove – SkinPro, NitriHand

Description:

Nitrile powder free gloves, straight finger, ambidextrous mold with non-slip/textured finish at fingertip, beaded cuff, 9" nominal length, box packed.

Use:

Provide products or processes in food and clean manufacturing application with contamination protection resulting from direct handling or incidental exposure by a worker's hand.

Sold as Sterile

☐ No

CE Marked

☒ Yes

FDA Regulated

☒ Yes

Contains Natural Latex

☐ No

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REQUIRED: YES/NO

Yes Traceable to component items/materials

Yes Certificate of Conformance/Analysis

Yes Specified attributes, variables, or other requirements

Yes Special considerations

Sampling:	All sampling for these gloves will follow ISO 2859-1 (current edition) Sampling Procedures for Inspection by Attributes.
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1.0 **ATTRIBUTES (VISUAL DEFECTS):**

Product will be inspected for defects as defined below. The sample unit shall be the individual glove.

1.1 Critical Defects (1.5-2.5 AQL)

1.1.1 Foreign Material: Wood splinters, glass, hair, or other foreign material present on or embedded in the sample.

1.1.2 Film Uniformity: Any tears or pinholes in the glove.

1.2 Major Defects (2.5 AQL)

1.2.1 Film Uniformity: Any thin or thick spots/streaks, bubbles, drips, coagulum >3 mm large.

1.2.2 Surface Tackiness: Film sticking together to inhibit proper donning, blocking, bricking, sticky pleats >10 mm.

1.2.3 Bead Formation: Any pinched/rolled cuffs.

- 1.2.4 Color: Discoloration/staining > 1 mm.
- 1.2.5 Wetness: Any wetness on or inside the glove.
- 1.2.6 Overturn: Gloves not overturned.
- 1.2.7 Incorrect Size: Any glove within a batch not having the proper size for that batch.
- 1.2.8 Product Cleanliness: Any dirt, grease, or other contaminant on glove.

1.3 Minor Defects (4.0 AQL)

- 1.3.1 Film Uniformity: Thick spots or coagulum < 3 mm large.
- 1.3.2 Surface Tackiness: Sticky pleats <10 mm.
- 1.3.3 Bead Formation: Gaps, tears, inconsistent shape.
- 1.3.4 Color: Discoloration or inconsistent glove to glove; stain, shiny spots.

2.0 **VARIABLES (PHYSICAL PROPERTIES):**

Product will be tested for conformance to acceptance limits as defined below. The sample unit shall be the individual glove.

2.1 Critical Defects (1.5-2.5 AQL or as specified)

	<u>Property</u>	<u>Units</u>	<u>Minimum</u>	<u>TARGET</u>	<u>Maximum</u>	<u>Test Method</u> <u>Current Edition</u>
2.1.1	Watertightness	NA	--	0	pass	ASTM D 5151 EN 455-1

2.2 Major Defects (2.5 AQL)

2.2.1	Tensile Strength Before aging	MPa	22.0	30.0	--	ASTM D 412 ASTM D 573 ASTM D 6319
2.2.2	Ultimate elongation Before aging	%	600	700	--	ASTM D 412 ASTM D 573 ASTM D 6319
2.2.1	Tensile Strength After aging	MPa	21.0	30.0	--	ASTM D 412 ASTM D 573 ASTM D 6319
2.2.2	Ultimate elongation After aging	%	500	600	--	ASTM D 412 ASTM D 573 ASTM D 6319
2.2.3	Median Force at Break Before aging	Newtons	5	7	--	EN 455-2

	<u>Property</u>	<u>Units</u>	<u>Minimum</u>	<u>TARGET</u>	<u>Maximum</u>	<u>Test Method</u> Current Edition
2.2.4	Palm Width:	mm				ASTM D 6319 EN 455-2
	X-small		70	75	80	
	Small		80	85	90	
	Medium		90	95	100	
	Large		105	105	110	
	X-large		105	111	120	
2.2.5	Thickness:	mm				ASTM D 6319
	Middle finger	3mil	0.07	0.09	0.11	
	Palm	3mil	0.05	0.07	0.09	
	Cuff	3mil	0.04	0.06	0.08	
	Middle finger	4mil	0.10	0.12	0.14	
	Palm	4mil	0.08	0.10	0.11	
	Cuff	4mil	0.06	0.08	0.10	
	Middle finger	5mil	0.11	0.13	0.15	
	Palm	5mil	0.09	0.11	0.13	
	Cuff	5mil	0.08	0.10	0.12	
2.2.6	Length:	mm				ASTM D 6319 EN 455-2
	9"		240	245	250	

3.0 **PACKAGING/LABELING/PREPARATION FOR DELIVERY (1.5 AQL):**

Product will be inspected for defects as defined below. The sample unit shall be the individual shipping container. All product must conform to the current packaging standard for this product.

- 3.1 **Mismatched Label and Contents:** Shipping container label and container contents do not agree. Inner package label does not agree with contents and with outer container label.

4.0 **SPECIAL CONSIDERATIONS:**

- 4.1 **Surface:** Powder-free, <2mg/glove

MSDS for Nitrile Gloves

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Trade name: Disposable Nitrile Glove, Powder Free, Blue color and Violet color

1.2. Application: Gloves for single use

1.3. Producer / dealer: Intco Medical Products Co., Ltd.

Address: No. 18 Qingtian Road Qilu Chemical Industry Park, Zibo, China

Tel: +86-533-7527018

2. COMPOSITION / INFORMATION OF INGREDIENTS

Butadiene-acrylonitrile Copolymer Latex (NBR Latex)

Colorants for tinting paints/coatings

3. HAZARD IDENTIFICATION

not applicable

4. FIRST AID MEASURES

not required

5. FIRE FIGHTING MEASURES

In case of fire unidentified toxic and/or irritating vapours/gases can arise

Extinguishing media: CO₂, Foam, Dry extinguishing powder, Waterspray jet

6. ACCIDENTAL RELEASE MEASURES

not applicable

7. HANDLING AND STORAGE

Store in a dry, ventilated area

Avoid direct sunlight, fluorescent lighting, heat and moisture

Do not store above 100°F (38 °C)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

not applicable

9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Blue /Violet

Odor: N/A

Physical state, odour: solid

Boiling point/range: not applicable

Flash point: not determined

Specific gravity: ~ 1.1 g/cm³

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions. Hazardous decomposition products depend upon temperature, air supply and the presence of other materials.

Materials/conditions to avoid: at temperatures > 200°C decomposition starts

Hazardous decomposition products: hydrochloric acid (HCl), carbon monoxid (CO) and other toxic substances

11. TOXICOLOGICAL INFORMATION

Inhalation: not applicable

Skin contact: material is not hazardous

Eye contact: not applicable

Ingestion: not applicable

12. ECOLOGICAL INFORMATION

The material is practically insoluble in water and is not expected to biodegrade.

13. DISPOSAL CONSIDERATIONS

EWC-Code: 07 02 13

Disposable according to national regulations.

14. TRANSPORT INFORMATION

ADR/RID: not a dangerous load

IMDG: not a dangerous load

ICAO: not a dangerous load

UN-No.: not a dangerous load

15. REGULATORY INFORMATION

Symbol: none

R-phrases: none

S-phrases: none

16. OTHER INFORMATION

This listing of legal regulations is related to the valid version.