

CERTIFIED
ASTM D6319

Test Report No. 7191240266-EEC20/01-WBH_CR1
(re-issue dated: 13 Aug 2020)
dated 30 Jul 2020



PSB Singapore

Add value.
Inspire trust.

Note: This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.

SUBJECT:

Testing of Examination Gloves submitted by Nathan Trading Co., Ltd on 08 Jul 2020.

TESTED FOR:

Nathan Trading Co., Ltd
58 Moo 12 Palan Sub-district,
Nathan District, Ubon Ratchathani,
34170, Thailand.

TEST DATE:

08 Jul 2020 to 30 Jul 2020

DESCRIPTION OF SAMPLES:

S/N	Product Description	Brand/ Model	Size	Colour	Lot No.	Expiry date	Sample received (pieces)	Manufacturer/ Distributor
1	Nitrile Examination Gloves Non-Sterile Powder Free	Lydus	M	Blue	MG202006261	May 2023	400	Nathan Trading Co., Ltd.

Lot size as specified by client: 35,001 pcs to 150,000 pcs

METHOD OF TEST:

- ASTM D6319-19 Standard Specification for Nitrile Examination Gloves for Medical Application
- Clauses 6.1.2 & 7.3 Freedom from Holes (Cross-reference to Test Method D5151)
 - Clauses 6.1.3 & 7.4 Physical Dimensions Test
 - Clauses 6.1.4 & 7.5 Physical Requirements Test – Die C, accelerated aging conducted according to Clause 7.5.2.1: temperature of 70±2 °C for 166±2h (Cross-reference to Test Method D412 and D573)
 - Clauses 6.1.5 & 7.6 Powder-free Residue (Cross-reference to Test Method D6124)



Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: enquiries@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
TUV®



CERTIFIED
ASTM D6319

Test Report No. 7191240266-EEC20/01-WBH_CR1
 (re-issue dated: 13 Aug 2020)
 dated 30 Jul 2020



PSB Singapore

RESULTS:

Sample: Nitrile Examination Gloves Non-Sterile Powder Free, Lydus, Lot No. MG202006261, Size M

Table 1: Results for Freedom from Holes

Clause	Tests	Requirements	No. of non-compliers allowed (pieces)	Number tested (pieces)	Actual no. of non-compliers found (pieces)	Inferred results
6.1.2 7.3	Freedom from holes	Shall not leak	10	200	1	Passed

Table 2: Results for Physical Dimensions Test

Clause	Tests	Requirements (mm)	Results (mm)			Number of pieces			Inferred results
			Min.	Mean	Max.	Non-compliers allowed	Tested	Actual non-compliers found	
6.1.3 7.4	a) Width	For size M: 95 ± 10	89	91	92	1	13	0	Passed
	b) Length	For size M: ≥ 230	238	241	243				
	c) Finger thickness	≥ 0.05	0.12	0.13	0.13				
	d) Palm thickness	≥ 0.05	0.08	0.09	0.09				

Table 3: Results for Physical Requirements Test – before accelerated aging

Clause	Tests	Requirements	Results			Number of pieces			Inferred results
			Min.	Mean	Max.	Non-compliers allowed	Tested	Actual non-compliers found	
6.1.4 7.5	Tensile strength (MPa)	≥ 14	29	34	36	1	13	0	Passed
	Ultimate elongation (%)	≥ 500	572	601	652				

Table 4: Results for Physical Requirements Test – after accelerated aging

Clause	Tests	Requirements	Results			Number of pieces			Inferred results
			Min.	Mean	Max.	Non-compliers allowed	Tested	Actual non-compliers found	
6.1.4 7.5	Tensile strength (MPa)	≥ 14	30	34	38	1	13	0	Passed
	Ultimate elongation (%)	≥ 400	546	571	590				



CERTIFIED
ASTM D6319

Test Report No. 7191240266-EEC20/01-WBH_CR1
(re-issue dated: 13 Aug 2020)
dated 30 Jul 2020



RESULTS (cont'd):


Sample: Nitrile Examination Gloves Non-Sterile Powder Free, Lydus, Lot No. MG202006261, Size M

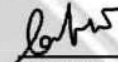
Table 5: Results for Powder Free Gloves

Clause	Tests	Requirements	Result	Inferred Results
6.1.5 7.6	Powder-free gloves	Powder residue \leq 2.0 mg	0.80 mg per glove	Passed

AMENDMENT:

The following amendment was made on 13 Aug 2020:
The size of glove was changed to M as per letter NTC 2020081301 submitted by client.


Yeo Poh Kwang
Associate Engineer


Wong Bee Hui
Product Manager
Medical Health Services (NAM)

APPENDIX:



Photo: Nitrile Examination Gloves Non-Sterile Powder Free, Lydus, Lot No. MG202006261, Size M



CERTIFIED
ASTM D6319

Test Report No. 7191240266-EEC20/01-WBH_CR1
(re-issue dated: 13 Aug 2020)
dated 30 Jul 2020



PSB Singapore

Please note that this Report is issued under the following terms :

1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD PSB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD PSB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
3. Nothing in this report shall be interpreted to mean that TÜV SÜD PSB has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
4. This report shall not be reproduced wholly or in parts and no reference shall be made by the Client to TÜV SÜD PSB or to the report or results furnished by TÜV SÜD PSB in any advertisements or sales promotion.
5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

July 2011

