

PoS-PL-70026-INTCO Rev: 1 (07-2022)

PROHLÁŠENÍ O SHODĚ A PRODUKTOVÝ LIST Nitrilové rukavice NITRIL DIAMOND 3

ČÁST I: POPIS PRODUKTU

Тур:	jednorázové nesterilní ochranné a vyšetřovací rukavice
Materiál:	100% syntetický nitril
Barva:	černá

Provedení: pravolevé, diamantový vzor, korálková manžeta

Pudr: není přidán

Skladování: rukavice neztrácejí své vlastnosti při skladování v suchu při teplotě od

10 do 30 °C

Životnost: 5 let od data výroby při dodržení podmínek skladování

Balení: 100 ks v krabičce, 10 krabiček v kartonu

ČÁST II: SPECIFIKACE PRODUKTU

Délka (mm): min. 240

Šířka (mm): $XS - 77 \pm 10$

 $S - 85 \pm 10$ $M - 95 \pm 10$ $L - 110 \pm 10$ $XL - 120 \pm 10$

Tloušťka (mm): prsty: 0.12 ± 0.05 (typická hodnota 0.11 - 0.14)

dlaň: 0.25 ± 0.05 (typická hodnota 0.23 – 0.25)

Prodloužení do přetržení (%): min. 500

Pevnost v tahu (MPa): min. 6

AQL: 1.5



ČÁST III: NORMY A NAŘÍZENÍ

Tímto potvrzujeme, že výše uvedený výrobek je v souladu s:

Obecné: PPER (EU) 2016/425 Cat. III

EN420

EN 1186-2,9:2002 EN 10130-1:2004 EN 388:2016+A1:2018

EN ISO 374-1,5:2016+A1:2018

EN ISO 374-2,4:2019

Potravinářství: EC 1935/2004

EU 10/2011 * Vyhovuje pro všechny simulanty kromě 3% kyseliny octové. Tento produkt je vhodný pro manipulaci s potravinami, kromě kyselých potravin (testováno

2 hodiny při 40 ° C)

ČÁST IV: POLOŽKY

Pol. č.	Velikost	Hmotnost (g)	Rozměry (mm)	Kvalita (g)	EAN
100162	М	860	240x140x110	8.0 ± 0.3	8594177201596
100163	L	890	240x140x110	8.3 ± 0.3	8594177201602
100164	XL	920	240x140x110	8.6 ± 0.3	8594177201619

ČÁST V: NÁHLED PRODUKTU





ČÁST VI: PŮVOD PRODUKTU

<u>Výrobce:</u>

INTCO Medical Technology Co., Ltd, No. 29 Zhangliu Road, Zibo, Shandong, China

Distributor:

Espeon s.r.o., U větrolamu 1212/53, 184 00 Praha 8, info@espeon.cz , www.espeon.cz





SATRA Technology Centre Ltd Wyndham Way, Telford Way, Kettering, Northamptonshire, NN16 8SD United Kingdom Tel: +44 (0) 1536 410000 Fax +44 (0) 1536 410626 email: info@satra.com www.satra.com



SATRA Technology Services (Dongguan) Ltd SATRA reference: CHM0330968/2219/JL Customer details:

Unit 110, Xinzhongyin Garden

Hongwei Road Xiping, Nancheng District DONGGUAN CITY Guangdong Province

China 523079 Your reference: CHT0328812

Date of report: 17th May 2022

Samples received: 11th April 2022

Date(s) work carried out:

14th to 16th May 2022

TECHNICAL REPORT

SATRA Technology Services (Dongguan) Ltd:

Customer:

Shandong Intco Medical Products Co Ltd Qiwang Road, Naoshan Industrial Park

Qinazhou Shandong 262506 China

Subject

EN ISO 374-4:2019 determination of resistance to degradation by dangerous chemicals on gloves described as Nitrile gloves, colour, orange, black,

Conditions of Issue:

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A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

Where values for uncertainty of measurement are included within the report then the uncertainty of the corresponding results are based on a standard uncertainty multiplied by a coverage factor k=2, which provides a coverage probability of approximately 95%.

When reporting results against a conformance statement (Pass/Fail or the allocation of a class or level) then uncertainty of measurement is taken into account based on a non-binary acceptance which itself is based on the guard band being equal to the expanded uncertainty.

Where the result corrected for uncertainty falls within the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 2.5% and SATRA will in this instance quote a Pass/Fail,

Where the result corrected for uncertainty falls outside of the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 50%. In this instance SATRA will not provide a Pass/Fail statement or a class or level but will include information in the notes in relation to the result obtained.

Please note that where uncertainty of measurement values have not been included then uncertainty has not been applied to these results. SATRA uncertainty of measurement values are however available upon request.

Report signed by:

Jennifer Lewis

Position: Technical Administrator Department:

Chemical & Analytical Technology

(Page 1 of 6)







WORK REQUESTED:

Samples of gloves described as Nitrile gloves, colour: orange, black were received on the 11th April 2022 for testing in accordance with EN ISO 374-4:2019.

SAMPLE SUBMITTED:



Sample described as Nitrile gloves, colour: orange, black.

CONCLUSION:

When assessed in accordance with EN ISO 374-4:2019 the samples of gloves described as Nitrile gloves, colour: orange, black achieved the following degradation results:

Chemical	Mean degradation / %	
40% Sodium hydroxide (CAS: 1310-73-2)	-7.1	
25% Ammonium hydroxide (CAS: 1336-21-6)	27.0	
37% Formaldehyde (CAS: 50-00-0)	17.7	
30% Hydrogen peroxide (CAS: 7722-84-1)	27.1	
96% Sulphuric acid (CAS: 7664-93-9)	100.0	

TESTING REQUIRED:

 EN ISO 374-4:2019. Protective gloves against dangerous chemicals and microorganisms. Part 4: Determination of resistance to degradation by chemicals.

Signed







RESULTS:

Sample description:	Nitrile gloves, colour: orange, black		
Challenge chemical:	40% Sodium hydroxide (CAS: 1310-73-		
Test temperature / °C:	(23 ± 1)		
Decredation (%)	Glove 1	Glove 2	Glove 3
Degradation / %:	-12.1	-14.6	5.3
Mean degradation (DR) / %:	-7.1		
Standard deviation (GDR) / %:	10.8		
UoM /±%:	5.6		
Appearance of samples after testing:	No change		

Sample description:	Nitrile gloves, colour: orange, black		
Challenge chemical:	25% Ammonium hydroxide (CAS: 1336-21		
Test temperature / °C:	(23 ± 1)		
Down dation / B/	Glove 1	Glove 2	Glove 3
Degradation / %:	31.7	17.5	32.0
Mean degradation (DR) / %:	27.0		
Standard deviation (opr) / %:	8.3		A. 11.2
UoM /±%:	6.6		" III " " P
Appearance of samples after testing:	Slightly swollen and discoloured		

Sample description:	Nitrile gloves, colour: orange, black		
Challenge chemical:	37% Formaldehyde (CAS: 50-00-0)		
Test temperature / °C:	(23 ± 1)		
Deposite 19/1	Glove 1	Glove 2	Glove 3
Degradation / %:	21.5	12.1	19.3
Mean degradation (DR) / %:	17.7		79
Standard deviation (GDR) / %:	4.9		- 1/2
UoM /±%:	6.2		47. V
Appearance of samples after testing:	No change		100

Sample description:	Nitrile gloves, colour: orange, black		
Challenge chemical:	30% Hydrogen peroxide (CAS: 7722-84-		
Test temperature / °C:	(23 ± 1)		
Degradation / %:	Glove 1	Glove 2	Glove 3
Degradation / %.	34.4	19.3	27.7
Mean degradation (DR) / %:	27.1		D. A
Standard deviation (GDR) / %:	7.6		90.1
UoM /± %:	7.9		100
Appearance of samples after testing:	Swollen and discoloured		

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SATRA Technology Services (Dongguan) Ltd SATRA Reference: CHM0330968/2219/JL Date: 17th May 2022 Signed







Sample description:	Nitrile gloves, colour: orange, black		
Challenge chemical:	96% Sulphuric acid (CAS: 7664-93-9)		
Test temperature / °C:	(23 ± 1)		
Demodelies (%)	Glove 1	Glove 2	Glove 3
Degradation / %:	100.0	100.0	100.0
Mean degradation (DR) / %:	100.0		
Standard deviation (GDR) / %:	<1		JA V
UoM /± %:	N/A		
Appearance of samples after testing:	Softened, swollen, disintegrated and discoloured		grated and

NOTE: Where the test specimens gave an increased puncture force after chemical exposure, the result is reported as a negative degradation.





SATRA Technology Services (Dongguan) Ltd Unit 110, Xinzhongyin Garden, Xiping Nancheng District, Dongguan City Guangdong Province, China 523079 Tel: +86 (0) 769 22888020 email: in



Customer details:

Shandong Intco Medical Products Co Ltd

Qiwang Road, Naoshan Industrial Park Qingzhou

Shandong China 262506

SATRA reference: CHT0328812 /2212/A

Your reference:

Date of report: 12 April 2022

Samples received: 26 March 2022

Date(s) work

4 April 2022

carried out:

TECHNICAL REPORT

Subject:

EN 388: 2016+ A1: 2018 abrasion, blade cut, tear and puncture test on nitrile gloves, colour: orange, black, sizes M7, L8, XL9, XXL10.

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Report signed by: Adam Zhang Position: Technologist Department: China Testing

(Page 1 of 6)

Adam Zhang







WORK REQUESTED

Samples described as nitrile gloves, colour: orange, black, sizes M7, L8, XL9, XXL10 were received by SATRA on 26 March 2022 for testing in accordance with EN 388:2016+A1:2018.

SAMPLE SUBMITTED



TESTING REQUESTED

EN 388:2016 +A1:2018 Clause 6.1 - Abrasion resistance EN 388:2016 +A1:2018 Clause 6.2 - Blade cut resistance EN 388:2016 *A1:2018 Clause 6.4 - Tear Resistance EN 388:2016 +A1:2018 Clause 6.5 - Puncture Resistance

CONCLUSION

The samples described as nitrile gloves, colour: orange, black, sizes M7, Lv8, XL9, XXL10 vwere found to achieve the following results:

EN 388:2016+A1:2018 Clause 6.1 - Level 0 EN 388:2016+A1:2018 Clause 6.2 - Level 0 EN 388:2016+A1:2018 Clause 6.4 - Level 0

EN 388:2016+A1:2018 Clause 6.5 - Level 0

Detailed results are included on the following page(s)

Shandong Intco Medical Products Co Ltd SATRA Reference: CHT0328812 /2212/A

12 April 2022 Date:

Adam Zhang (Page 2 of 6)







TESTING

Testing was carried out in accordance with EN 388:2016+A1:2018.

Samples for testing were conditioned for at least 24 hours in a conditioned environment maintained at (23±2) °C and (50±5) % relative humidity.

REQUIREMENTS

Table 1 - Requirements for EN 388:2016 +A1:2018 Levels of performance

Performance Level	1	2	3	4	5
6.1Abrasion resistance (number of rubs)	100	500	2000	8000	- 5
6.2 Coupe test Blade cut resistance (index)	1.2	2.5	5.0	10	20
6.4 Tear resistance (N)	10	25	50	75	- 8
6.5Puncture resistance (N)	20	60	100	150	

Shandong Intco Medical Products Co Ltd SATRA Reference: CHT0328812 /2212/A

Date: 12 April 2022

Signed: Adam Zhang

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TEST RESULTS

Table 2 - EN 388:2016+A1:2018 Test Results

Clause / Test			Test Resu	lts		UoM (See note ♦)	Level
	Samp	ple F	allure between cycles		Physical change served at end point		
	1		105-150		Hole		
	2		10-20		Hole		
6.1 Abrasion resistance	3		1-10		Hole	± 5 %	Level
resistance	4		105-150		Hole		
	Tape-3M 46			2016 +A1	2018 Clause 6.1.3		
	Sample	Cn Control specimen	Test specimen	Contro specime	Cut Index	76	
		0.8	0.1	1.1	1.11	1	
		1.1	0.1	0.8	1.11		
	Left	0.8	0.1	0.8	1.13		
	- /	0.8	0.1	0.8	1.13	0.77	Level
	10	0.8	0.1	1.1	1.11	2000	
6.2 Blade cut	Mean				1.11	± 0.64	
resistance	160	0.8	0.1	0.8	1.13	P1 055	
	all	0.8	0.1	0.8	1.13		
	Right	0.8	0.1	1.1	1.11	11/20	
	2024	01.1	0.1	0.8	1.11	WILL OF	
	12001	0.8	0.1	1.1	1:11	10'L' 00	16
	Mean				00 1.11 2	Pollin	2
		OLFA ® RB 45 mm blades used N° 14861 cotton canvas used from Tenthorey De La Plaine					
211-25	Kin V	Sample Peak force / N		Peak force / N			
6.4 Tear	202 F	0(1)	7000	2.0		- "5L	. P.
resistance	100011	2	- 508	1.4		± 1.8 N	Level
	OKILL	3			0.9	20	110
DI OU	1 00	Sample	10	Per	ak force / N	OF// N	N.
000	1-205	1	all	100	21.3	202	LO2
6.5 Puncture resistance	AL D	2	120 P		13.5	± 1.9 N	Level
-coloidi loc	00 121	3	00/24		17.8	OPIL	NP
	NLL O	4	1		20.1	DI O	

ADDITONAL INFORMATION /NOTES

Note ♦ – Estimated uncertainty of measurement applied at point of test (e.g. to applied force or to tolerance limits) to ensure product meets requirements of the standard.

End of Report

(Page 4 of 6)

Shandong Intco Medical Products Co Ltd SATRA Reference: CHT0328812 /2212/A

Date: 12 April 2022

DOIN DIS

gned: Adam Zhang





SATRA Technology Centre Ltd Wyndham Way, Telford Way, Kettering, Northamptonshire, NN16 8SD. United Kingdom Tel: +44 (0) 1536 410000 Fax +44 (0) 1536 410626 email: info@satra.com www.satra.com



Customer details: SATRA Technology Services (Dongguan) Ltd SATRA reference: CHM0329706/2215/CC

Unit 110, Xinzhongyin Garden

Hongwei Road You Xiping, Nancheng District DONGGUAN CITY Guangdong Province Si

China 523079 Your reference: CHT0328812

Date of report: 25th April 2022

Samples received: 11th April 2022

Date(s) work

11th to 25th April 2022

carried out:

TECHNICAL REPORT

SATRA Technology Services (Dongguan) Ltd:

Customer:

Shandong Intco Medical Products Co Ltd Qiwang Road, Naoshan Industrial Park

Qingzhou Shandong 262506 China

Subject:

EN 16523-1:2015+A1:2018 resistance to permeation by chemicals on gloves described

as Nitrile gloves, colour: orange, black.

Conditions of Issue:

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Report signed by:

Chelsea Craig

Position:

Technical Administrator

Department:

Chemical & Analytical Technology

(Page 1 of 12)







WORK REQUESTED:

Samples of gloves described as Nitrile gloves, colour: orange, black were received on the 11th April 2022 for testing in accordance with EN 16523-1:2015+A1:2018 and assessment in accordance with the requirements of EN ISO 374-1:2016+A1:2018.

SAMPLES SUBMITTED:





Samples described as Nitrile gloves, colour: orange

Samples described as Nitrile gloves, colour: black

CONCLUSION:

When assessed in accordance with the requirements of EN ISO 374-1:2016+A1:2018 the samples of gloves described as Nitrile gloves, colour: orange, black achieved the following performance levels:

Chemical	Performance level		
n-Heptane (CAS: 142-82-5)	The samples tested did not meet with the minimum breakthrough time for a performance level 1 to be achieved		
40% Sodium hydroxide (CAS: 1310-73-2)	6		
96% Sulphuric acid (CAS: 7664-93-9)	1 206 201 000		
25% Ammonium hydroxide (CAS: 1336-21-6)	6		
30% Hydrogen peroxide (CAS: 7722-84-1)	4 00 000		
37% Formaldehyde (CAS: 50-00-0)	01 500		

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Full results are reported in the following tables.

SATRA Technology Services (Dongguan) Ltd SATRA Reference: CHM0329706/2215/CC

Date: 25th April 2022

Signed:









TESTING REQUIRED:

 EN 16523-1:2015+A1:2018 - Determination of material resistance to permeation by chemicals -Part 1: Permeation by liquid chemical under conditions of continuous contact

RESULTS AND REQUIREMENTS:

EN ISO 374-1:2016+A1:2018 - Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks. Table 1: Permeation performance levels.

Permeation performance level	Measured breakthrough time (minutes)
1	>10
2	>30
3	>60
4	>120
5	>240
6	>480

Performance levels are based on the lowest individual result achieved per chemical.

AV

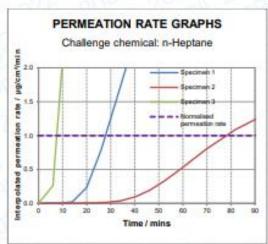


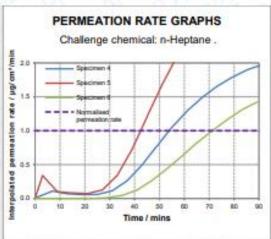




Test/Property	Sample reference:	Nitrile gloves, o	colour: orange, black	Performance
- CALL	22	Chemical:	n-Heptane	
		Normalised permeation		
EN	Test information:	Detection technique: GC-FID (periodic measurement)		
16523-1:2015	information:	Collection medium:	Dry air (open loop)	The samples
+A1:2018 in	1 T	Collection medium flow	rate: 335 - 380 ml/min	tested did not
accordance	V	Test temperature: (23 ± 1) °C		meet with the
with SATRA SOP CAT-005	Specimen	Thickness (mm)	Breakthrough time (mins)*	minimum breakthrough time for a
Helma atalahan	1 - Orange	0.28	27	
Using stainless steel permeation	2 - Black	0.24	78	performance
cells with	3 - Orange	0.26	7	level 1 to be
standardised	4 - Orange	0.25	53	achieved
dimensions	5 - Black	0.24	42	
	6 - Orange	0.27	71	
		Test result:	7	
		UoM:	<1	
Visual appe specimens a			Severely swollen	

In accordance with clauses 8.5.1.2 and 8.5.1.4, the test results were outside the defined range and required an additional 3 specimens to be tested. All 6 results have been reported and the sample was found to not meet with the minimum breakthrough time for a performance level 1 to be achieved.





SATRA Technology Services (Dongguan) Ltd SATRA Reference: CHM0329706/2215/CC

Date: 25th April 2022

Signed:



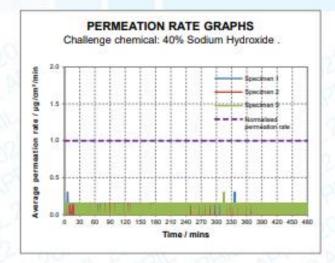
(Page 4 of 12)







Test/Property	operty Sample reference: Nitrile gloves, colour: orange, black			
OBL		Chemical: 40°	% Sodium Hydroxide	
		Normalised permeation	rate (NPR): 1 µg/cm²/min	0
EN 16523-1:2015	Test	Detection technique: Conductimetry (continuous measurement)		
+A1:2018 in	information:	Collection medium: D	eionised water (closed loop)	
accordance with SATRA		Collection medium stirring rate: (each cell constant to within ± 10%) 45 – 65 ml/min		Level 6
SOP CAT-009		Test temperature: (23 ± 1) °C		
Using PTFE	Specimen	Thickness (mm)	Breakthrough time (mins)	
permeation cells	1 - Orange	0.26	>480	1
with standardised dimensions	2 - Black	0.29	>480	1
dimensions	3 - Orange	0.24	>480	
	1,53	Test result:	>480	
		UoM:	<1	
Visual appe specimens a		Slightly S	wollen and slightly discoloure	ed







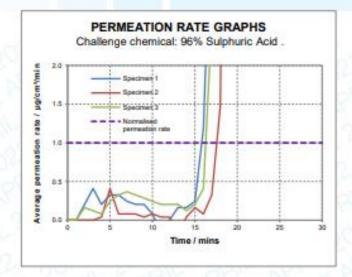


specimens after testing:

TECHNICAL REPORT



	Test/Property	Sample reference:	Nitrile gloves, c	olour: orange, black	Performance
		SOME STATE OF STATE	Chemical: 9	6% Sulphuric Acid	
			Normalised permeation	rate (NPR): 1 µg/cm²/min	
	EN 16523-1:2015	Test	Detection technique: Conductimetry (continuous measurement)		
	+A1:2018 in	information:	Collection medium: De	eionised water (closed loop)	
	accordance with SATRA		Collection medium stirr (each cell constant to within	45 - 55 mumin	
	SOP CAT-009		Test temperature:	(23 ± 1) °C	Level 1
	Using PTFE	Specimen	Thickness (mm)	Breakthrough time (mins)	
	permeation cells	1 - Orange	0.23	16	
	with standardised dimensions	Z - DINGS	0.23	18	
	dimensions	3 - Orange	0.29	17	
			Test result:	16	
		62 50	UoM:	<1	
	Visual appe		Sv	vollen and discoloured	





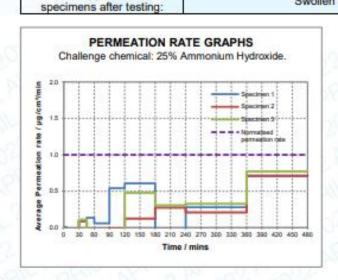
Signed:







Test/Property	Sample reference:	Nitrile gloves, o	colour: orange, black	Performance
THE PERSON		Chemical: 25% Ammonium hydroxide		E
		Normalised permeation	rate (NPR): 1 µg/cm²/min	
EN 16523-1:2015	Test information:	Detection technique:		
+A1:2018 in		Collection medium: Deionised water (closed loop)		
accordance with SATRA		Collection medium stirr (each cell constant to within		Lauric
SOP CAT-025		Test temperature:	(23 ± 1) °C	Level 6
Using PTFE permeation cells	Specimen	Thickness (mm)	Breakthrough time (mins)	
with standardised	1 - Orange	0.27	>480	1
dimensions	2 - Black	0.25	>480	
	3 - Orange	0.26	>480	A COLUMN TO A COLU
		Test result:	>480	
		UoM:	<1	0
Visual appe		S	wollen and discoloured	



Ammonium Hydroxide is determined by discrete sampling; therefore the permeation rate graph is not a smooth curve.



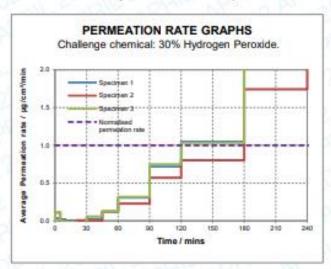






Test/Property	Sample reference:	Nitrile gloves, o	olour: orange, black	Performance
Charles	Para sanda	Chemical: 309	6 Hydrogen peroxide	Carlo William
		Normalised permeation	rate (NPR): 1 µg/cm²/min	1
EN 16523-1:2015	Test	Detection technique:		
+A1:2018 in	information:	Collection medium: Deionised water (closed loop)		
accordance with SATRA		Collection medium stirring rate: (each cell constant to within ± 10%) 45 – 65 ml/min		
SOP CAT-025		Test temperature:	(23 ± 1) °C	Level 4
Using PTFE	Specimen	Thickness (mm)	Breakthrough time (mins)*	i) seascea
permeation cells with standardised	1 – Orange 2 – Black	0.28 0.27	Between 121 to 180 Between 181 to 240	
dimensions	3 - Orange	0.28	Between 121 to 180	
		Test result:	Between 121 to 180	100
		UoM:	See below	
Visual appe specimens a		Si	wollen and discoloured	

For SOP CAT-025, where both the P1 and Pu are observed in the same sampling range, uncertainty is expressed as the time difference between the mid-point of the range and the previous sampling time. This uncertainty is included in the reported result.



Hydrogen peroxide is determined by discrete sampling; therefore the permeation rate graph is not a smooth curve.



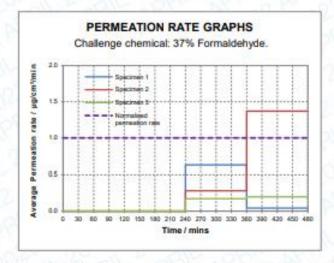






Test/Property	Sample reference:	Nitrile gloves,	colour: orange, black	Performance
- CALL	22.00	Chemical:	37% Formaldehyde	
		Normalised permeation	rate (NPR): 1 µg/cm²/min	1
EN 16523-1:2015	Test	Detection technique: HPLC-DAD (periodic measurement)		
+A1:2018 in	information:	Collection medium: Deionised water (closed loop)		
accordance with SATRA		Collection medium stirring rate: (each cell constant to within ± 10%) 45 – 65 ml/min		
SOP CAT-025		Test temperature:	(23 ± 1) °C	Level 5
Using PTFE	Specimen	Thickness (mm)	Breakthrough time (mins)	
permeation cells	1 - Orange	0.25	>480	[
with standardised	2 - Black	0.25	Between 361 to 480	
dimensions	3 - Orange	0.27	>480	
	W	Test result:	Between 361 to 480	
		UoM:	See below	
Visual appe specimens a		s	wollen and discoloured	Q.

For SOP CAT-025, where both the P1 and Pu are observed in the same sampling range, uncertainty is expressed as the time difference between the mid-point of the range and the previous sampling time. This uncertainty is included in the reported result.



Formaldehyde is determined by discrete sampling; therefore the permeation rate graph is not a smooth curve.

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CHM0329706/2215/CC SATRA Reference: 25th April 2022 Date:

Signed:









- EN 16523-1:2015+A1:2018 does not require the test specimen thicknesses to be reported, this information is indicative only.
- The collection medium from each cell is analysed once every 6 minutes. Due to the complexity of the detection technique, the minimum sampling frequency for final results ≤ 60 minutes as specified in table 1 of EN 16523-1:2015+A1:2018 is not possible. Breakthrough time is calculated using linear interpolation between the discrete sampling points.
- Breakthrough expressed as a range between discrete sampling points where the average permeation rate exceeds the NPR. Due to the complexity of the detection technique, the minimum sampling frequency as specified in table 1 of EN 16523-1:2015+A1:2018 is not possible.

TECHNOLOGY

SATRA Technology Services (Dongguan) Ltd SATRA Reference: CHM0329706/2215/CC Date: 25th April 2022 Signed:

(Page 10 of 12)







SATRA Technology Services (Dongguan) Ltd Unit 110, Xinzhongyin Garden, Xiping Nancheng District, Dongguan City Guangdong Province, China 523079 Tel: +86 (0) 769 22888020 email: info@satrafe.com



Customer details: Shandong Intco Medical Products Co Ltd

Qiwang Road, Naoshan Industrial Park

Qingzhou Shandong China 262506 SATRA reference: CHT0328812 /2212 /B

Your reference:

Date of report: 25 April 2022

Samples received: 26 March 2022

Date(s) work

2-14 April 2022

carried out:

TECHNICAL REPORT

Subject:

EN ISO 21420: 2020 size & dexterity & innocuousness test, EN ISO 374-2: 2019 air leak and water leak, EN ISO 374-5: 2016 viruses test on nitrile gloves, colour: orange, black, sizes M7, L8, XL9, XXL10.

Conditions of Issue:

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

Tests marked # fall outside the UKAS Accreditation Schedule for SATRA.

All opinions and interpretations of results, and the comments based upon them are outside the scope of UKAS accreditation and are based on current SATRA knowledge.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

Where values for uncertainty of measurement are included within the report then the uncertainty of the corresponding results are based on a standard uncertainty multiplied by a coverage factor k=2, which provides a coverage probability of approximately 95%.

When reporting results against a conformance statement (Pass/Fail) then uncertainty of measurement is taken into account based on a nonbinary acceptance which itself is based on the guard band being equal to the expanded uncertainty.

Where the result corrected for uncertainty falls within the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 2.5% and SATRA will in this instance quote a Pass/Fail, class or level.

Where the result corrected for uncertainty falls outside of the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 50%. In this instance SATRA will not provide a Pass/Fail statement or a class or level but will include information in the notes in relation to the result obtained.

Please note that where uncertainty of measurement values have not been included then uncertainty has not been applied to these results. SATRA uncertainty of measurement values are however available upon request.

Report signed by: Adam Zhang Position: Technologist Department: China Testing

(Page 1 of 9)

Adam Zhang







WORK REQUESTED

Samples described as nitrile gloves, colour: orange, black, sizes M7, L8, XL9, XXL10 were received by SATRA on 26 March 2022 for testing in accordance with EN ISO 21420: 2020, EN ISO 374-2: 2019 and EN ISO 374-5: 2016.

SAMPLE SUBMITTED



TESTING REQUESTED

EN ISO 21420: 2020 Clause 5.1 - Sizing and measurement of gloves

EN ISO 21420: 2020 Clause 5.2 – Dexterity EN ISO 374-2: 2019 Clause 7.2 – Air leak EN ISO 374-2: 2019 Clause 7.3 – Water leak

≠EN ISO 374-5: 2016 Clause 5.3 - Protection against viruses (ISO 16604: 2004 Procedure B)

≠EN ISO 21420: 2020 Clause 4.2 - Innocuousness of protective gloves

CONCLUSION

The samples described as nitrile gloves, colour: orange, black, sizes M7, L8, XL9, XXL10 were found to achieve the following results:

EN ISO 21420: 2020 Clause 5.1 - See below table

EN ISO 21420: 2020 Clause 5.2 – Level 5 EN ISO 374-2: 2019 Clause 7.2 – Pass EN ISO 374-2: 2019 Clause 7.3 – Pass ≠EN ISO 374-5: 2016 Clause 5.3 – Pass

≠EN ISO 21420: 2020 Clause 4.2 - Pass pH value and PAHs

Detailed results are included on the following page(s)

Shandong Intco Medical Products Co Ltd SATRA Reference: CHT0328812 /2212 /B

Date: 25 April 2022

Signed:

Adam Zhang

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TESTING

Testing was carried out in accordance with EN ISO 21420:2020 and EN ISO 374-2: 2019

Samples for testing were conditioned for at least 24 hours in a conditioned environment maintained at (23±2) °C and (50±5) % relative humidity.

REQUIREMENTS

Table 1 - Requirements for EN ISO 21420: 2020 Clause 5.2 Dexterity

Performance level	1	2	3	4	5
Diameter of dexterity pin /mm	11.0	9.5	8.0	6.5	5.0

Table 2 - Requirements for EN ISO 374-2: 2019

Clause 7.2 Air leak	No leak to be detected	
Clause 7.3 Water leak	No leak to be detected	

TEST RESULTS

Table 3 - EN ISO 21420:2020 Test Results

Clause / Test	Requirement	Test Results			900	UoM (See note ♦)	Result
20 all	2011-	Size	10	Length /mm	7	14 009 0	N 12
P. Dien	N. 30	0120	1	2	3		1110
Jan De	2000	7	248	250	250		300
0 10	1.08V	Comfortable on fit			24		1100
5.1 Glove	0 100	8	242	242	242	000	N/A
length, comfort and fit	N/A	Comfortable on fit			3.	± 1.10 mm	
adll "		9	253	252	253	III Page	
N. 105 L		Comfortable on fit			-10		in M
DOWN	2 maile	10	259	259	263		1-
r Ohin	by n	Comfortable on fit			-11		26/11
7 Facil	1000	Size	Minimum pin diameter / mm		ter / mm	N - 10 P	107
5.2 Dexterity	See table 1	7		5.0	15734		200
		8		5.0	Small	N/A	Level 5
	01	9		5.0	POK		T. March
JOE MILL	all:	10		5.0	P 19		100

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Shandong Intco Medical Products Co Ltd SATRA Reference: CHT0328812 /2212 /B

25 April 2022

Signed: Adam Zhang







Table 4 - EN ISO 374-2: 2019 Test Results

Clause / Test	Test Res	UoM	Result	
7.2 Air leak test	Total air pressure used Sample size 7 8 9	2.9 kPa Leaks No leaks detected No leaks detected No leaks detected	± 0.25 kPa	Pass
7.3 Water leak test	10 Sample size 7 8 9	No leaks detected Leaks No leaks detected No leaks detected No leaks detected No leaks detected	NA	Pass

ADDITIONAL INFORMATION / NOTES

Note ♦ – Estimated uncertainty of measurement applied at point of test (e.g. to applied force or to tolerance limits) to ensure product meets requirements of the standard

Shandong Intco Medical Products Co Ltd SATRA Reference: CHT0328812 /2212 /B

Date: 25 April 2022

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Signed: Adam Zhang







PROTECTION AGAINST VIRUSES TEST RESULTS

Testing was conducted at a third-party laboratory and reported under their reference 220074309. The laboratory is CNAS accredited to ISO 17025: 2017 with ISO 16604: 2004 included in their accreditation schedule.

Table 1 - Resistance to penetration by blood-borne pathogens results

Sample des	cription:	Nitrile gloves, co	olour: orange			
Test method	Specimen	Step 1 (0 kPa, 5 min)	Step 2 (14 kPa, 1min)	Step 3 (0kPa, 4min)	Phi-X174 (PFU /mL)	Comment
ISO 16604:	+ control	Penetration	Penetration	Penetration	Penetration	Acceptable
2004 Procedure	- control	No penetration	No penetration	No penetration	<1	Acceptable
B Using	1	Invisible penetrate	Invisible penetrate	Invisible penetrate	< 1	Pass
retaining screen	2	Invisible penetrate	Invisible penetrate	Invisible penetrate	<1	Pass
	3	Invisible penetrate	Invisible penetrate	Invisible penetrate	< 1	Pass
Sample des	cription:	Nitrile gloves, co	olour: black	• • • • • • • • • • • • • • • • • • • •	,	**
Test method	Specimen	Step 1 (0 kPa, 5 min)	Step 2 (14 kPa, 1min)	Step 3 (0kPa, 4min)	Phi-X174 (PFU /mL)	Comment
ISO 16604:	+ control	Penetration	Penetration	Penetration	Penetration	Acceptable
2004 Procedure B Using retaining screen	- control	No penetration	No penetration	No penetration	<1	Acceptable
	1	Invisible penetrate	Invisible penetrate	Invisible	<1	Pass
	2	Invisible penetrate	Invisible penetrate	Invisible penetrate	<1	Pass
	3	Invisible penetrate	Invisible penetrate	Invisible penetrate	< 1	Pass

Shandong Intco Medical Products Co Ltd SATRA Reference: CHT0328812 /2212 /B

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Signed: Adam Zhang

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INNOCUOUSNESS TEST RESULTS

Testing was conducted at a third-party laboratory and reported under their reference A220402048001. The laboratory is CNAS accredited to ISO 17025: 2017.

Sample Item	Sample Description	Location	Style
1001	Orange nitrile gloves	Gloves	1
1002	Black nitrile gloves	Gloves	2

pH Value - EN ISO 21420:2020

Test Method I: With reference to EN ISO 4045:2018, analyzed by pH meter. Test Method II: With reference to ISO 3071:2020, analyzed by pH meter.

Contract to the Contract of th	Service:
Requirement:	3 5 9 5
Requirement:	0.5-5.5

	Unit	Re	sult
Test Item(s)		1001	1002
Test Method		II .	11
Parameter		- Q	
pH Value of Extracting Solution		6.11	6.11
Temp. of Aqueous Extract	deg. C	25.1	25.1
pH Value of Aqueous Extract	7110	6.6	6.5
Difference Figure	C	0.00	
Conclusion	- D	PASS	PASS

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deg. C = degree Celsius (°C) Temp. = Temperature Note / Key:

Result(s) was (were) reported the average value from two trials.

Tested part(s) was/were specified by client.

Shandong Intco Medical Products Co Ltd SATRA Reference: CHT0328812 /221 CHT0328812 /2212 /B Date: 25 April 2022

Signed: Adam Zhang







Polycyclic Aromatic Hydrocarbons (PAHs) Content - EN ISO 21420:2020

With reference to test method PD CEN ISO/TS 16190:2013

Maximum Allowable Each of all listed PAHs: 1.0 mg/kg Limit:

Tested Hemist	R	tesult		Constructor
Tested Item(s)	Detected Analyte(s)	Conc.	Unit	Conclusion
1001+1002	ND	ND	mg/kg	PASS

ND = Not detected(<Detection Limit) Detection Limit (mg/kg): Each: 0.2; Note / Key :

mg/kg = milligram per kilogram = ppm = part per million

Remark: The list of polycyclic aromatic hyrdocarbons is summarized in table of Appendix.

Tested part(s) was/were specified by client. Composite testing(s) was/were specified by client.

st of P	olynuclear Aromatic Hydroc		PENDIX		
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Chrysene	218-01-9	5	Dibenzo (a,h) anthracene	53-70-3
2	Benzo (a) pyrene	50-32-8	6	Benzo (b) fluoranthene	205-99-2
3	Benzo (e) pyrene	192-97-2	7	Benzo (j) fluoranthene	205-82-3
4	Benzo (a) anthracene	56-55-3	8	Benzo (k) fluoranthene	207-08-9

*** End of Report ***

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Shandong Intco Medical Products Co Ltd SATRA Reference: CHT0328812 /221 CHT0328812 /2212 /B

Date: 25 April 2022





Test Report No. TAOHG2203886501 Date: 15 Jun 2022 Page 1 of 5

Client Name: SHANDONG INTCO MEDICAL PRODUCTS CO., LTD

Client Address: NO.9888, QIWANG ROAD, NAOSHAN INDUSTRY PARK, QINGZHOU, SHANDONG, CHINA

DIAMOND TEXTURED NITRILE GLOVES

The above sample(s) and information were provided by the client.

SGS Job No.: QDHL2205007192CW - QD

Date of Sample Received : 01 Jun 2022

Testing Period: 01 Jun 2022 - 15 Jun 2022

Test Requested: Selected test(s) as requested by the client.

Test Method(s): Please refer to next page(s). Test Result(s): Please refer to next page(s).

Result Summary:

Test Requested	Conclusion
Council of Europe Resolution AP (2004) 4 -Overall migration	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 -Sensorial examination odour and taste test	PASS
Council of Europe Resolution AP (2004) 4 -Specific migration of primary aromatic amine	PASS
Council of Europe Resolution AP (2004) 4 -Specific migration of nitrosamine and nitrosatable substances	PASS

Signed for and on behalf of SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Wang Bo, Claire Approved Signatory







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Test Report No. TAOHG2203886501 Date: 15 Jun 2022 Page 2 of 5

Test Result(s):

Test Part Description:

Specimen No.	SGS Sample ID	Description	Material
			(claimed by the client)
SN1	TAO22-038865.001	Orange rubber glove	Nitrile rubber

Remarks:

- (1) mg/dm2 = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Council of Europe Resolution AP (2004) 4 -Overall migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and

Annex V for selection of condition and EN 1186-1:2002 for selection of test methods;

EN 1186-9: 2002 aqueous food simulants by article filling method;

EN 1186-2: 2002 olive oil by total immersion method;

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 001 Overall Migration	Conclusion
3% Acetic acid (W/V) aqueous solution	0.5hr(s)	40°C	10mg/dm²	8.2mg/dm²	PASS
10% Ethanol (V/V) aqueous solution	0.5hr(s)	40°C	10mg/dm²	6.6mg/dm²	PASS
Rectified olive oil	0.5hr(s)	40°C	10mg/dm²	3.5mg/dm²	PASS
Area/Volume			-	10.0dm²/kg	

Notes:

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm2 or 12 mg/kg.
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm2 or 20mg/kg.
- (3) Test condition & simulant were specified by client.
- (4) Report the first migration result.
- (5) The test of rectified olive oil simulant was subcontracted to SGS Ningbo chemical lab.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test



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Member of the SGS Group (SGS SA)









Test Report No. TAOHG2203886501 Date: 15 Jun 2022 Page 3 of 5

Test Method: With reference to DIN 10955: 2004

Test media: Distilled water

No. of panelist: 6

Test Item(s)	Limit	001
Test time (hr)		0.5
Temperature (°C)	32	40
Sensorial examination odour (Point scale)	2.5	0.0
Sensorial examination taste (Point scale)	2.5	0.0
Conclusion		PASS

Notes:

Intensity scale (rounded at 0.5):

0 - no perceptible difference

1 - just perceptible difference

2 - slight difference

3 - marked difference

4 - strong difference

Council of Europe Resolution AP (2004) 4 -Specific migration of primary aromatic amine

Test Method: With reference to EN 13130-1: 2004, analysis was performed by UV-Vis.

Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous solution

Test Condition : 40 °C 0.5 hr(s)

Test Item(s)	Max. Permissible	Unit	MDL	Test result
	<u>Limit</u>			
Migration times				First
Area/volume		dm²/kg		6.0
Specific migration of primary aromatic amine	ND	mg/kg	0.01	ND
Condusion				PASS

Notes:

(1) Test condition & simulant were specified by client.

Council of Europe Resolution AP (2004) 4 -Specific migration of nitrosamine and nitrosatable substances

Test Method: With reference to EN 13130-1: 2004, analysis was performed by GC-MS.



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Test Report No. TAOHG2203886501 Date: 15 Jun 2022 Page 4 of 5

Sample 001

Simulant Used: 3% Acetic acid (W/V) aqueous aclution

Test Condition: 40 °C 0.5 hr(s)

Test Item(s)	Max. Permissible	Unit	MDL	Test result
	Limit	8 77 18	345	(A)
Migration times				First
Area/volume		dm²/kg		6.0
Specific migration of Nitrosamines	0.01	mg/kg	0.01	ND
Specific migration of Nitrosatable substances	0.1	mg/kg	0.1	ND
Condusion				PASS

Notes:

(1) Nitrosamines tested: N-nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA), N-nitrosodipropylamine (NDPA), N-nitrosodibutylamine (NDBA), N-nitrosopiperidine (NPIP), N-nitrosopyrrolidine (NPYR), N-nitrosomorpholine (NMOR), N-nitrosodibenzylamine (NDBzA), N-nitroso-N-methyl-N-phenylamine (NMPhA), N-nitroso-N-ethyl-N-phenylamine (NEPhA), N-nitrosodiisononylamine (NDiNA) and N-Nitrosodiisobutylamine (NDiBA)

- (2) Test condition & simulant were specified by client.
- (3) The test was subcontracted to SGS Ningbo chemical lab.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.







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Test Report

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Sample photo:



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