

## TECHNICAL REPORT

SATRA TECHNOLOGY SERVICES (DONGGUAN) LTD UNIT 110, XINZHONGYIN GARDEN XIPING, NANCHENG DISTRICT DONGGUAN CITY Guangdong Province China	SATRA reference:	CHM2022955	
	Report ID/Issue number:	2516	1
	Your reference:	51457/1	
	Date samples received:	CHT2021879	
	Date(s) work carried out:	14/04/2025	
	Date of report:	17/04/2025 to 28/04/2025	
		06/05/2025	

### Testing Requirements

EN ISO 374-4:2019 determination of resistance to degradation by dangerous chemicals on gloves described as Synthetic Latex Exam Gloves Cream White

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Report Signed by:

Ben Giddings



Report Signatory

**WORK REQUESTED:**

Samples of gloves described as Synthetic Latex Exam Gloves Cream White were received on 14<sup>th</sup> April 2025, for testing in accordance with EN ISO 374-4:2019.

**CUSTOMER:**

Shandong Intco Medical Products Co Ltd  
Qiwang Road, Naoshan Industrial Park  
Qingzhou SHANDONG 262506  
China

**SAMPLE SUBMITTED:**

Samples described as Synthetic Latex Exam Gloves Cream White.

## CONCLUSION:

When assessed in accordance with EN ISO 374-4:2019 the samples of gloves described as Synthetic Latex Exam Gloves Cream White achieved the following degradation results:

Chemical	Mean degradation / %
40% Sodium hydroxide (CAS: 1310-73-2)	-44.0
30% Hydrogen peroxide (CAS: 7722-84-1)	28.3
37% Formaldehyde (CAS: 50-00-0)	28.8

Full results are reported in the following tables.

## TESTING REQUIRED:

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

## RESULTS:

<b>Sample description:</b>	Synthetic Latex Exam Gloves Cream White		
<b>Challenge chemical:</b>	40% Sodium hydroxide (CAS: 1310-73-2)		
<b>Test temperature / °C:</b>	(23 ± 1)		
<b>Degradation / %:</b>	<b>Glove 1</b>	<b>Glove 2</b>	<b>Glove 3</b>
	-8.5	-83.2	-40.5
<b>Mean degradation (DR) / %:</b>	-44.0		
<b>Standard deviation (<math>\sigma_{DR}</math>) / %:</b>	37.5		
<b>UoM / ± %:</b>	8.7		
<b>Appearance of samples after testing:</b>	No change		

<b>Sample description:</b>	Synthetic Latex Exam Gloves Cream White		
<b>Challenge chemical:</b>	30% Hydrogen peroxide (CAS: 7722-84-1)		
<b>Test temperature / °C:</b>	(23 ± 1)		
<b>Degradation / %:</b>	<b>Glove 1</b>	<b>Glove 2</b>	<b>Glove 3</b>
	49.2	8.8	26.9
<b>Mean degradation (DR) / %:</b>	28.3		
<b>Standard deviation (<math>\sigma_{DR}</math>) / %:</b>	20.2		
<b>UoM / ± %:</b>	11.0		
<b>Appearance of samples after testing:</b>	Swollen		

<b>Sample description:</b>	Synthetic Latex Exam Gloves Cream White		
<b>Challenge chemical:</b>	37% Formaldehyde (CAS: 50-00-0)		
<b>Test temperature / °C:</b>	(23 ± 1)		
<b>Degradation / %:</b>	<b>Glove 1</b>	<b>Glove 2</b>	<b>Glove 3</b>
	33.9	17.7	34.7
<b>Mean degradation (DR) / %:</b>	28.8		
<b>Standard deviation (<math>\sigma_{DR}</math>) / %:</b>	9.6		
<b>UoM / ± %:</b>	11.0		
<b>Appearance of samples after testing:</b>	Swollen		

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

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## Conditions of Use

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### Confidentiality and Dissemination

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SATRA test reports may be forwarded to other parties if they are not changed in any way and are not marked as confidential. Test reports must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

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### Liability

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

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.

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### Accreditation

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Tests marked ¥ are performed under SATRA's Flexible UKAS Schedule.

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### Uncertainty of Measurement and Decision Rules

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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, 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.

SATRA's guidelines provide recommendations that are based upon SATRA's knowledge and experience. The guidelines are intended to indicate conformance by providing information on the likely performance or characteristics of a property. As such, uncertainty of measurement is not applied when evaluating results against guideline recommendations.

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