

TEST REPORT

Report No.: CH:TX:1442027361

CEPHAS MEDICAL PRIVATE LIMITED

DP 33, 34, SIDCO INDUSTRIAL ESTATE (URBAN)

VIRUDHUNAGAR-626103

INDIA

CONTACT PERSON: C.R SARAVANAN

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS:

SAMPLE DESCRIPTION GLOVES

18 INCH NITRILE UNLINED GLOVES 22 MIL

COLOUR GREEN

STYLE NO. CNU-18 AND BNU-18

COUNTRY OF DESTINATION INDIA
COUNTRY OF ORIGIN INDIA

SAMPLE RECD ON 03/06/2023 **TESTING PERIOD**: 03/06/2023 - 07/06/2023

	Summary of Test Results/Conclusion						
Test Method / Standard	Test Name	Status / Performance Level					
	Protective Gloves against mechanical risks						
BS EN 388:2016	Abrasion Resistance	Level 4					
+A1:2018	Blade Cut Resistance (Coupe test)	Level 0					
+A1:2018	Tear Resistance	Level 0					
	Puncture Resistance	Level 1					
	Protective gloves against dangerous chemicals and micro-organ	nisms - Part 2: Determination					
EN ISO 374-2:2019	of resistance to penetration						
EN ISO 374-2:2019	Air leak test	Pass					
	Water leak test	Pass					
	Determination of material resistance to permeation by chemic						
	liquid chemical under conditions of continuou						
	Methanol	Level – 3					
EN 16523-1:2015+A1.2018	n-Heptane	Level – 6					
	Sodium hydroxide 40%	Level – 6					
	Sulphuric acid 96%	Level – 3					
	Acetic acid 99%	Level – 3					
	Protective gloves against dangerous chemicals and micro-organisms - Part 4: Determination						
	of resistance to degradation by chemic						
	Methanol	Refer results.					
EN ISO 374-4:2019	n-Heptane	Refer results.					
	Sodium hydroxide 40%	Refer results.					
	Sulphuric acid 96%	Refer results.					
	Acetic acid 99%	Refer results.					
	Protective gloves - General requirements and test methods						
ISO 21420:2020	Sizing	Refer Results.					
	Dexterity	Level 5					
ISO 14362-1:2017	Azo dyes	Pass					
ISO 3071: 2020	pH Value	Pass					
ISO/TS 16190:2021	Polyaromatic hydrocarbons Content (PAH)	Pass					

Test results are extracted from CH:TX: 1442013638 Dated 17/04/2023 and issued separate report.

Note: NABL symbol is published only on the page/s having accredited parameters.

JOE No.: 2342812396 400046466 Page 1 of 18 Control No.

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

SGS India Pvt. Ltd.

Connectivity and Products Testing Laboratory, 28 B/1 (SP),28 B/2 (SP),Second Main Road, Ambattur Industrial Estate ,Ambattur,Chennai-600 058. Phone:91-44-66081600, Fax:91-44-66081700

ISSUE DATE: 07/06/2023



TEST REPORT

Report No.: CH:TX:1442027361

ISSUE DATE: 07/06/2023

Per pro SGS India Private Ltd.

R. KAMALAKANNAN ASSISTANT MANAGER

Email your Test Report Related Enquiries at Feedback.SLT@sgs.com

JOE No.: 2342812396 400046466 Page 2 of 18

Control No.:1442527555

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_end_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.





Report No.: CH:TX:1442027361 ISSUE DA

ISSUE DATE: 07/06/2023

RESULTS

BS EN 388: 2016+A1:2018 Protective Gloves against mechanical risks

Clause	Test Name Equipment/Accessories		Result	Performance Level		
	Abrasion resistance	Sample #	Break Through Between /(Rubs)			
	Protection part: Palm	1	>8000			
6.1	Equipment: Martindale Abrasion Tester	2	>8000	4		
0.1	Abradant: Klingspor PL31B, Grit 180	3	>8000	4		
	Adhesive tape: Wonder Double sided	4	>8000			
	adhesive tape	Observation:	Break through not occurred until 8000 rubs			
	Blade cut resistance (Coupe test)	Sample #	Sample # Blade cut Index /(Index)			
	Protection part: Palm	1	1.15 1.15 1.15 1.15			
6.2	Equipment: Coupe Cut Tester		Mean: 1.15	0		
	Blade: OLFA RB 45 mm	2	1.14 1.14 1.13 1.13 1.13	(See Note)		
	Control Specimen: Cotton Canvas		Mean: 1.13	1		
		Sample #	Maximum Force/(N)			
6.4	Tear resistance	1	< 5.0			
0.4	Protection part: Palm	2	5.1	0		
	Equipment: CRE	3	8.0			
		4	< 5.0			
	Puncture resistance	Sample #	Maximum Force/(N)			
6.5	Protection part: Palm	1	50.6			
0.0	Equipment: CRE	2	56.2	1		
	Puncture Stylus: Puncture Stylus-4,	3	50.0			
	Steel 60 HRC Rockwell	4	43.3			

Note: Sample not dulling the blade of coupe cut test (number of cycles on control specimen after first sequence of test specimen is not greater than 3 times of initial control fabric value).

Requirement as per BS EN 388:2016+A1.2018

Table - 1

Clause/Test Name	Level 1	Level 2	Level 3	Level 4	Level 5
6.1 Abrasion resistance (Number of rubs)	100	500	2000	8000	-
6.2 Coupe test: Blade cut resistance (index)	1.2	2.5	5.0	10.0	20.0
6.4 Tear resistance(N)	10	25	50	75	-
6.5 Puncture resistance(N)	20	60	100	150	-

***** End of Page*****

JOE No.: 2342812396 400046466 Page 3 of 18 Control No.:1442527555

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_end_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_endocument.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.





TEST REPORT

ISSUE DATE: 07/06/2023

Report No. : CH:TX:1442027361

RESULTS

EN ISO 374-2 : 2019 Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration

Clause	Test Name	Tes	Performance level	
7.2	Air leak Test (Air Pressure Used : 5.0	Sample Size	Leakage	
	kPa)	Size 7/S	No Leakage	1
		Size 8/M	No Leakage	Pass
		Size 9/L	No Leakage	
		Size 10/XL	No Leakage	
		Size 11/XXL	No Leakage	
7.3	Water leak test	Sample Size	Leakage	
		Size 7/S	No Leakage	1
		Size 8/M	No Leakage	Pass
		Size 9/L	No Leakage	
		Size 10/XL	No Leakage	
		Size 11/XXL	No Leakage	

***** End of page*****

JOE No.: 2342812396 400046466 Page 4 of 18

Control No.:1442527555

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_end_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_endocument.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.





Report No. : CH:TX:1442027361

ISSUE DATE: 07/06/2023

RESULTS

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

Chemical CAS NO	Loop system/collection medium/Flow rate	Analytical technique used	Mean thickness (mm)	NBT at NPR 1.0 μg cm ⁻² min ⁻¹ (minutes)	Performance level accordance to EN ISO 374-1: 2016+A1:2018 Table 1	Observation
Methanol 67-56-1 Palm	Open loop/ Nitrogen/ 0.015 liter per minute	Continuous measurement With GC-FID	0.70 0.68 0.70	69 72 70	Level – 3	Moderating swelling
Methanol 67-56-1 Cuff	Open loop/ Nitrogen/ 0.015 liter per minute	Continuous measurement With GC-FID	0.58 0.60 0.59	100 103 101	Level – 3	Moderating swelling
n-Heptane 142-82-5 Palm	Open loop/ Nitrogen/ 0.015 liter per minute	Continuous measurement With GC-FID	0.68 0.70 0.69	> 480 > 480 > 480	Level – 6	Slight swelling
n-Heptane 142-82-5 Cuff	Open loop/ Nitrogen/ 0.015 liter per minute	Continuous measurement With GC-FID	0.60 0.57 0.60	> 480 > 480 > 480	Level – 6	Slight swelling
Sodium hydroxide 40% 1310-73-2 Palm	Closed loop/ Grade 3 water/ 350 rpm	Continuous measurement With Conductivity electrode	0.69 0.70 0.68	> 480 > 480 > 480	Level - 6	No change
Sodium hydroxide 40% 1310-73-2 Cuff	Closed loop/ Grade 3 water/ 350 rpm	Continuous measurement With Conductivity electrode	0.61 0.58 0.60	> 480 > 480 > 480	Level - 6	No change
Sulphuric acid 96% 7664-93-9 Palm	Closed loop/ Grade 3 water/ 350 rpm	Continuous measurement With Conductivity electrode	0.70 0.69 0.70	64 61 69	Level – 3	Severe swelling and colour change
Sulphuric acid 96% 7664-93-9 Cuff	Closed loop/ Grade 3 water/ 350 rpm	Continuous measurement With Conductivity electrode	0.59 0.60 0.58	93 78 85	Level – 3	Severe swelling and colour change

***** End of Page*****

JOE No.: 2342812396 400046466 Page 5 of 18 Control No.:1442527555

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

SGS India Pvt. Ltd.





Report No. : CH:TX:1442027361

ISSUE DATE: 07/06/2023

RESULTS

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

Chemical CAS NO	Loop system/collection medium/Flow rate	Analytical technique used	Mean thickness (mm)	NBT at NPR 1.0 µg cm ⁻² min ⁻¹ (minutes)	Performance level accordance to EN ISO 374-1: 2016+A1:2018 Table 1	Observation
Acetic acid 99% 64-19-7 Palm	Closed loop/ Grade 3 water/ 350 rpm	Continuous measurement With Conductivity electrode	0.70 0.69 0.70	69 67 65	Level – 3	Severe swelling and colour change
Acetic acid 99% 64-19-7 Cuff	Closed loop/ Grade 3 water/ 350 rpm	Continuous measurement With Conductivity electrode	0.58 0.60 0.57	95 76 87	Level – 3	Severe swelling and colour change

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 results achieved per chemical

***** End of Page*****

JOE No. : 2342812396 400046466 Page 6 of 18 Control No.:1442527555

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.





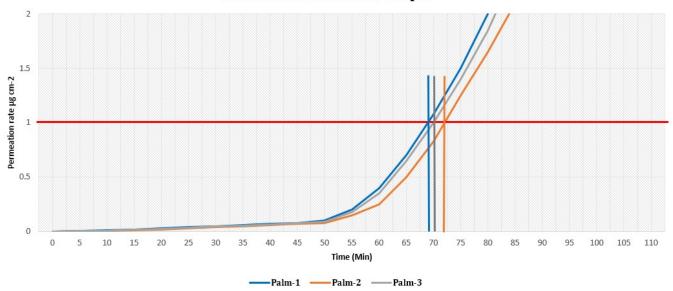
TEST REPORT

Report No. : CH:TX:1442027361

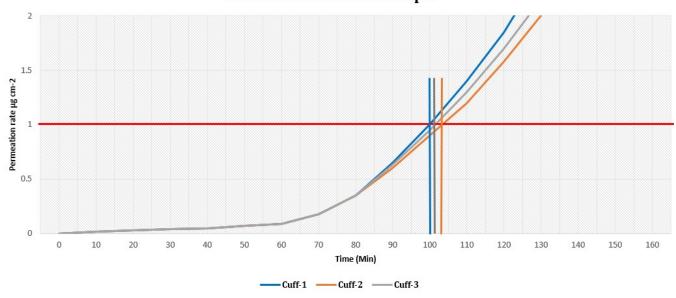
ISSUE DATE: 07/06/2023

RESULTS

Methanol Permeation Graph



Methanol Permeation Graph



***** End of Page*****

JOE No.: 2342812396 400046466 Page 7 of 18

Control No.:1442527555

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_end_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

SGS India Pvt. Ltd

Connectivity and Products Testing Laboratory, 28 B/1 (SP),28 B/2 (SP),Second Main Road, Ambattur Industrial Estate ,Ambattur,Chennai-600 058. Phone:91-44-66081600, Fax:91-44-66081700





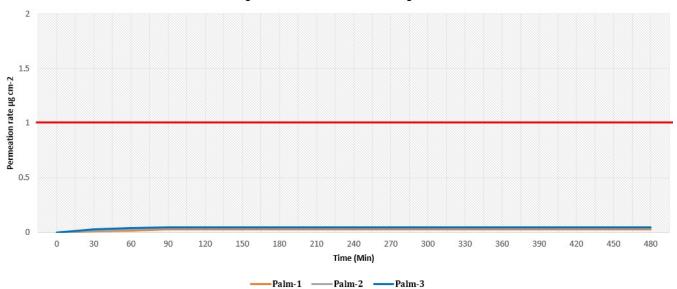
TEST REPORT

Report No. : CH:TX:1442027361

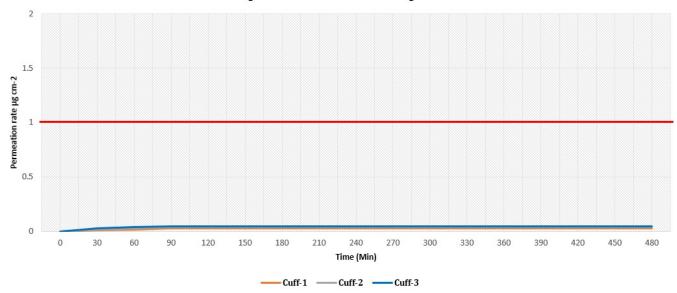
ISSUE DATE: 07/06/2023

RESULTS

n-Heptane Permeation Graph



n-Heptane Permeation Graph



***** End of Page*****

IOE No.: 2342812396 400046466 Page 8 of 18

Control No.:1442527555

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_end_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.





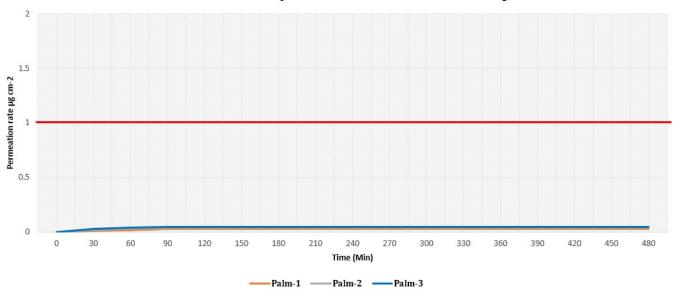
TEST REPORT

Report No. : CH:TX:1442027361

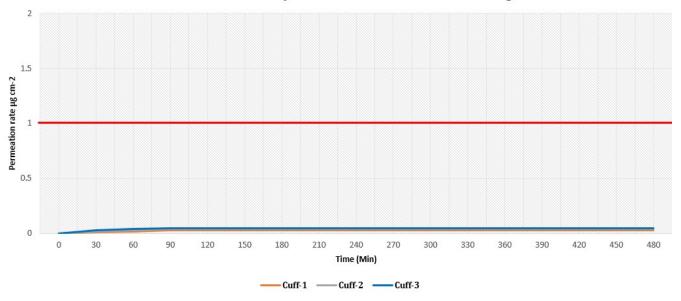
ISSUE DATE: 07/06/2023

RESULTS

Sodium Hydroxide 40% Permeation Graph



Sodium Hydroxide 40% Permeation Graph



***** End of Page*****

JOE No.: 2342812396 400046466 Page 9 of 18

Control No.:1442527555

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_end_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

SGS India Pvt. Ltd.

Connectivity and Products Testing Laboratory, 28 B/1 (SP),28 B/2 (SP),Second Main Road, Ambattur Industrial Estate ,Ambattur,Chennai-600 058. Phone:91-44-66081600, Fax:91-44-66081700



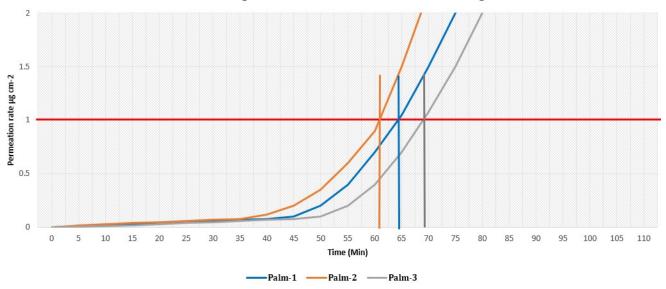


Report No. : CH:TX:1442027361

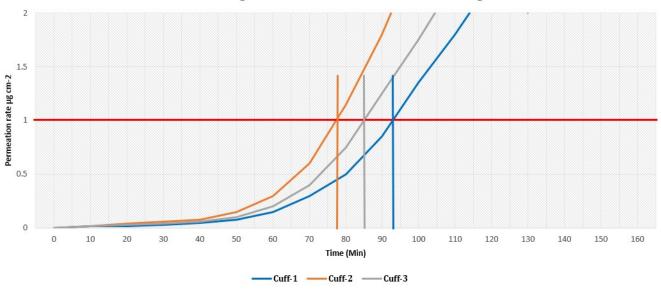
ISSUE DATE: 07/06/2023

RESULTS

Sulphuric Acid 96% Permeation Graph



Sulphuric Acid 96% Permeation Graph



***** End of Page*****

JOE No.: 2342812396 400046466 Page 10 of 18

Control No.:1442527555

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.





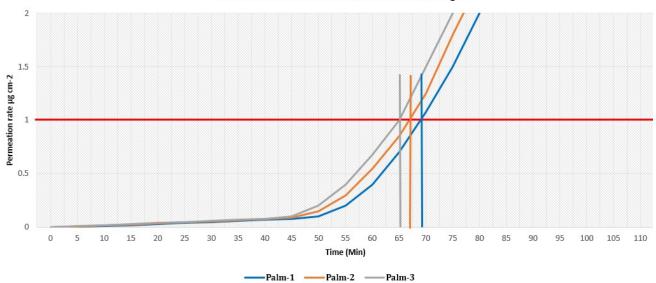


Report No.: CH:TX:1442027361

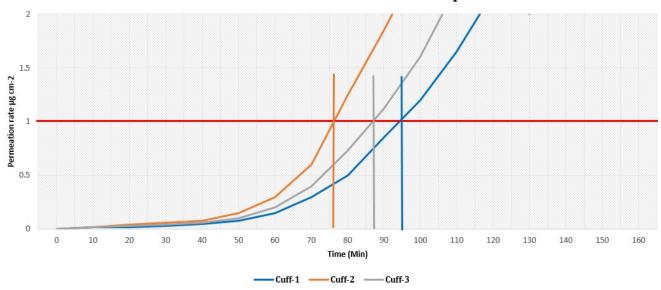
ISSUE DATE: 07/06/2023

RESULTS

Acetic Acid 99% Permeation Graph



Acetic Acid 99% Permeation Graph



***** End of Page*****

JOE No.: 2342812396 400046466 Page 11 of 18

Control No.:1442527555

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

SGS India Pvt. Ltd

Connectivity and Products Testing Laboratory, 28 B/1 (SP),28 B/2 (SP),Second Main Road, Ambattur Industrial Estate ,Ambattur,Chennai-600 058. Phone:91-44-66081600, Fax:91-44-66081700





TEST REPORT

Report No. : CH:TX:1442027361 ISSUE DATE : 07/06/2023

RESULTS

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

Chemical /	Exposure Duration	Test Res		Observation	
CAS NO	Exposure Buration	Percentage change in p		Oboci valion	
Methanol 67-56-1	60±5 minutes	Glove sample 1 2	Result (%) 48.1 48.5	Moderate swelling	
Palm	3020 minutes	3 Mean Standard Deviation	47.9 48.2 0.300	moderate eneming	
Methanol 67-56-1 Cuff	60±5 minutes	Glove sample 1 2 3 Mean Standard Deviation	Result (%) 54.0 54.4 54.3 54.2 0.203	Moderate swelling	
n-Heptane 142-82-5 Palm	60±5 minutes	Glove sample 1 2 3 Mean Standard Deviation	Result (%) 17.3 18.4 18.1 17.9 0.539	Slight swelling	
n-Heptane 142-82-5 Cuff	60±5 minutes	Glove sample 1 2 3 Mean Standard Deviation	Result (%) 11.6 12.2 13.3 12.4 0.896	Slight swelling	
Sodium hydroxide 40% 1310-73-2 Palm	60±5 minutes	Glove sample 1 2 3 Mean Standard Deviation	Result (%) 3.4 3.0 3.0 3.2 0.243	No change	
Sodium hydroxide 40% 1310-73-2 Cuff	60±5 minutes	Glove sample 1 2 3 Mean Standard Deviation	Result (%) 4.1 3.4 3.0 3.5 0.556	No change	

***** End of page*****

JOE No.: 2342812396 400046466 Page 12 of 18

Control No.:1442527555

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.





ISSUE DATE: 07/06/2023

Report No. : CH:TX:1442027361

RESULTS

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

Chemical / CAS NO	Exposure Duration	Test Res		Observation
OAO NO		Glove sample	Result (%)	
Sulphuric acid		1	30.9	
96%	60±5 minutes	2	31.5	Severe swelling and colou
7664-93-9	00±0 minutes	3	30.4	change
Palm		Mean	30.9	
		Standard Deviation	0.529	
		Glove sample	Result (%)	
Sulphuric acid		1	37.9	
96%	60±5 minutes	2	37.5	Severe swelling and color
7664-93-9		3	37.3	change
Cuff		Mean	37.6	
		Standard Deviation	0.280	
		Glove sample	Result (%)	
Acetic acid		1	63.0	
99%	CO 15	2	63.4	Severe swelling and color
64-19-7	60±5 minutes	3	63.2	change
Palm		Mean	63.2	
		Standard Deviation	0.178	
		Glove sample	Result (%)	
Acetic acid		1	59.1	
99%	00.5	2	58.8	Severe swelling and color
64-19-7	60±5 minutes	3	58.5	change
Cuff		Mean	58.8	
		Standard Deviation	0.295	

***** End of page*****

JOE No.: 2342812396 400046466 Page 13 of 18

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.





ULR -TC-617623000027319F **TEST REPORT**

Report No.: CH:TX:1442027361

ISSUE DATE: 07/06/2023

RESULTS

ISO 21420:2020 Protective gloves — General requirements and test methods. Test Condition: Temperature: 23+2°C. RH: 50+5%. Duration: 24 hours.

Test Method	Result		Average	Standard sizing Level		
	Declared Size		7/S			
	Comments on Fit	on Fit Satisfactory			9 ½	
	Circumference (mm)	242	243	242	242.3 mm	9 72
	Length (mm)	462	462	465	463.0 mm	
Declared Size 8/M						
	Comments on Fit	S	Satisfactory			40
	Circumference (mm)	258	260	259	259.0 mm	10
	Length (mm)	447	450	448	448.3 mm	
Declared Size 9/L						
ISO 21420:2020	Comments on Fit				40.1/	
(6.1 & Annex B)	Circumference (mm)			270.7 mm	10 ½	
	Length (mm)	448	448 451 448		449.0 mm	
	Declared Size		10/XL			
	Comments on Fit	S	Satisfacto	ry		40.1/
	Circumference (mm)	276	277	276	276.3 mm	10 ½
	Length (mm)	460	465	463	462.7 mm	
	Declared Size		11/XXL			
	Comments on Fit	Satisfactory			11	
	Circumference (mm)	282	283	281	282.0 mm	11
	Length (mm)	455	454	457	455.3 mm	
ISO 21420:2020 (6.2)	Smallest Pir Trial: 1 Trial: 2 Trial: 3	Pin Diameter (mm) 5 5 5 5		5 mm	Level 5	
	ISO 21420:2020 (6.1 & Annex B)	Declared Size Comments on Fit Circumference (mm) Length (mm) Declared Size Comments on Fit Circumference (mm) Length (mm) Declared Size Comments on Fit Circumference (mm) Length (mm) Declared Size Comments on Fit Circumference (mm) Length (mm) Declared Size Comments on Fit Circumference (mm) Length (mm) Declared Size Comments on Fit Circumference (mm) Length (mm) Declared Size Comments on Fit Circumference (mm) Length (mm) Smallest Pir Trial: 1 Trial: 2	Declared Size	Declared Size	Declared Size	Declared Size 7/S Comments on Fit Satisfactory

***** End of Page*****

Page 14 of 18 JOE No. : 2342812396 400046466

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.





Report No.: CH:TX:1442027361 ISSUE DATE: 07/06/2023

RESULTS

Req

pH VALUE

Test Method: According to ISO 3071:2020

(Extraction Solution : KCL)

GLOVES - GREEN

Value 7.1 3.5 - 9.5

Note : pH value of extraction medium : 5.0 – 7.5

Temperature of the extraction solution : 25±2°C

Note: Requirements given as per ISO 21420:2020 (Clause: 4.2).

Polyaromatic hydrocarbons Content

Test Method: Test method: With reference to ISO 16190: 2021 / Analysis by GC-MS

GLOVES - GREEN

	Result
Benzo(a)anthracene	n.d.
Chrysene	n.d.
Benzo(b)Fluoranthene	n.d.
Benzo(k) Fluoranthene	n.d.
Benzo(a)pyrene	n.d.
Dibenzo (a,h) anthracene	n.d.
Benzo(e)Pyrene	n.d.
Benzo(i) Fluoranthene	n.d.

Note: n.d. = Not detected

mg/kg = ppm

Reporting Limit = 0.2 mg/kg (for individual compound)

Req.: 1 mg/kg

Note: Requirements given as per ISO 21420:2020 (Clause: 4.2)

***** End of Page*****

JOE No.: 2342812396 400046466 Page 15 of 18

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.





ISSUE DATE: 07/06/2023

ULR -TC-617623000027319F <u>TEST REPORT</u>

Report No. : CH:TX:1442027361

RESULTS

Azo Dyes (Direct Reduction & Colorant Extraction)

Test Method: Textile: With reference to ISO 14362-1:2017. Analysis was conducted with GC-MS/HPLC-DAD.

Determination of 4-aminoazobenzene (CAS No.:60-09-3)-ISO 14362-3:2017; with the use of

GC-MS/ HPLC-DAD.

GLOVES - GREEN

		Result	
	CAS-No.	Direct reduction+	Colorant extraction+
4-Aminobiphenyl	92-67-1	n.d.	n.d.
Benzidine	92-87-5	n.d.	n.d.
4-Chlor-o-toluidine	95-69-2	n.d.	n.d.
2-Naphthylamine	91-59-8	n.d.	n.d.
o-Aminoazotoluene	97-56-3	n.d.	n.d.
5-nitro-o-toluidine / 2-Amino-4- nitrotoluene	99-55-8	n.d.	n.d.
4-Chloroaniline	106-47-8	n.d.	n.d.
4-methoxy-m-phenylenediamine / 2,4- Diaminoanisole	615-05-4	n.d.	n.d.
4,4'-Diaminodiphenylmethane	101-77-9	n.d.	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.	n.d.
3,3'-Dimethybenzidine	119-93-7	n.d.	n.d.
4,4'-methylenedi-o-toluidine / 3,3'- Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.	n.d.
p-Cresidine	120-71-8	n.d.	n.d.
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.	n.d.
4,4'-Oxydianiline	101-80-4	n.d.	n.d.
4,4'-Thiodianiline	139-65-1	n.d.	n.d.
o-Toluidine	95-53-4	n.d.	n.d.
4-methyl-m-phenylenediamine / 2,4- Toluylendiamine	95-80-7	n.d.	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.	n.d.
4-aminoazobenzene	60-09-3	n.d.	n.d.
O-Anisidine	90-04-0	n.d.	n.d.
2,4 – Xylidine	95-68-1	n.d.	n.d.
2,6 – Xylidine	87-62-7	n.d.	n.d.
Conclusion		PASS	PASS

Note: n.d. = not detectable

mg/kg = ppm

Reporting Limit = 5 mg/kg

Requirement: ND

***** End of Page*****

JOE No.: 2342812396 400046466 Page 16 of 18

Control No.:1442527555

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.





Report No. : CH:TX:1442027361 ISSUE DATE : 07/06/2023

Remark:

* Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.

Colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 Clause 10.1 and relevant clauses.

4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.

In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.

EN ISO 14362-1:2017 / EN ISO 17234-1:2015 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "n.d." (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 / EN ISO 17234-2: 2011 will be employed to verify the presence of 4-AAB.

Note: Requirements given as per ISO 21420:2020 (Clause: 4.2).

***** End of Page*****

JOE No.: 2342812396 400046466 Page 17 of 18

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

Control No.:1442527555



TEST REPORT

Report No.: CH:TX:1442027361



ISSUE DATE: 07/06/2023

SAMPLE IMAGE



***** End of Report*****

JOE No. : 2342812396 400046466 Page 18 of 18

Control No.:1442527555 This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be

reproduced except in full, without prior approval of the Company.