TEST REPORT

Report No. : CH:TX:1342058284 **DATE : 02/12/2022**

CEPHAS MEDICAL PRIVATE LIMITED
DP 33, 34, 46 & 47, 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 LONG NITRILE UNLINED GLOVES
COLOUR GREEN
STYLE NO. CNU 18
COUNTRY OF ORIGIN INDIA
SAMPLE RECD ON 24/11/2022 **TESTING PERIOD :** 24/11/2022 - 02/12/2022

Summary of Test Results/Conclusion

Test Method / Standard	Clause/Test Name	Status / Performance Level
EN 16523-1:2015+A1.2018	**Permeation by potentially hazardous liquid chemicals under conditions of continuous contact.**	
	Ammonium hydroxide 25%	Level-6
	Formaldehyde 37%	Level-6
	Hydrogen peroxide 30%	Level-6

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

Per pro SGS India Private Ltd.

R. KAMALAKANNAN
ASSISTANT MANAGER
Email your Test Report Related Enquiries at Feedback.SLT@sgs.com

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

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
Ammonium hydroxide 25% 1336-21-6 **PALM**	Closed loop/ Grade 3 water/ 350rpm	Continuous measurement With Conductivity electrode	0.74 0.72 0.75	>480 >480 >480	Level - 6	Slight swelling
Ammonium hydroxide 25% 1336-21-6 **CUFF**	Closed loop/ Grade 3 water/ 350rpm	Continuous measurement With Conductivity electrode	0.55 0.54 0.56	>480 >480 >480	Level - 6	Slight swelling
Hydrogen peroxide 30% 7722-84-1 **PALM**	Closed loop/ Grade 3 water/ 350rpm	Periodic measurement with HPLC	0.73 0.72 0.75	>480 >480 >480	Level - 6	Slight swelling
Hydrogen peroxide 30% 7722-84-1 **CUFF**	Closed loop/ Grade 3 water/ 350rpm	Periodic measurement with HPLC	0.57 0.55 0.56	>480 >480 >480	Level - 6	Slight swelling
Formaldehyde 37% 50-00-0 **PALM**	Closed loop/ Grade 3 water/ 350rpm	Periodic measurement with HPLC	0.75 0.73 0.74	>480 >480 >480	Level - 6	Slight swelling
Formaldehyde 37% 50-00-0 **CUFF**	Closed loop/ Grade 3 water/ 350rpm	Periodic measurement with HPLC	0.56 0.54 0.57	>480 >480 >480	Level - 6	Slight swelling

EN ISO 374-1:2016+A1:2018 – Protective gloves against dangerous chemicals and micro-organisms.
Part 1: Terminology and performance requirments 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 achived per chemical

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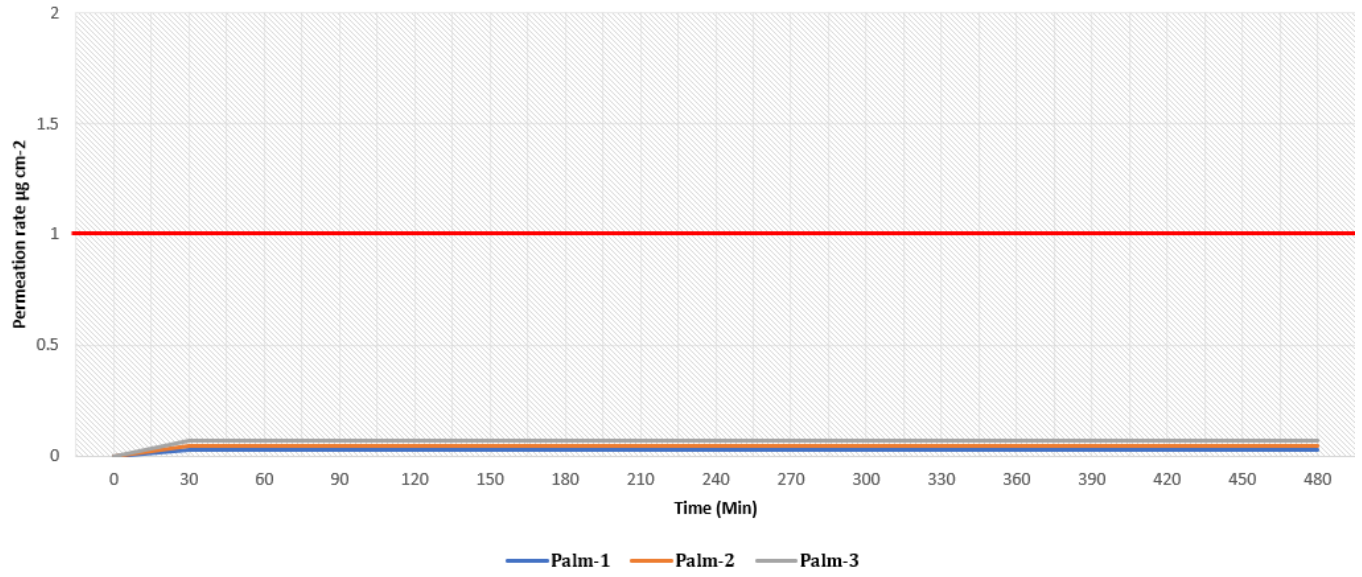
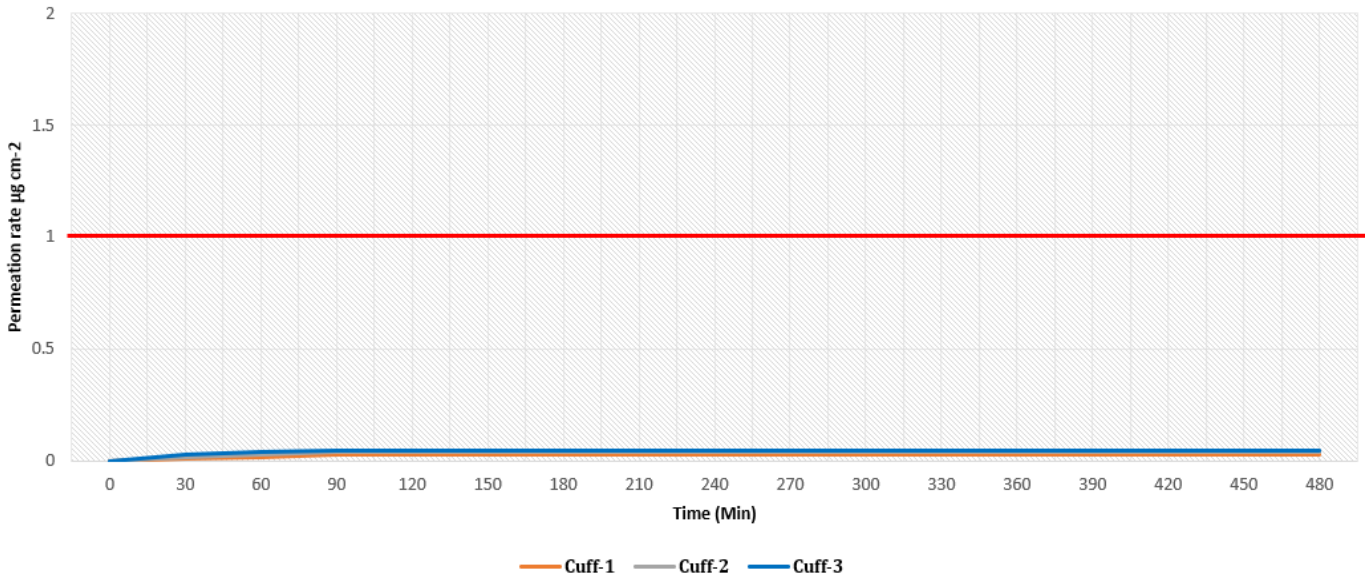
Ammonium Hydroxide 25% Permeation Graph



Ammonium Hydroxide 25% Permeation Graph



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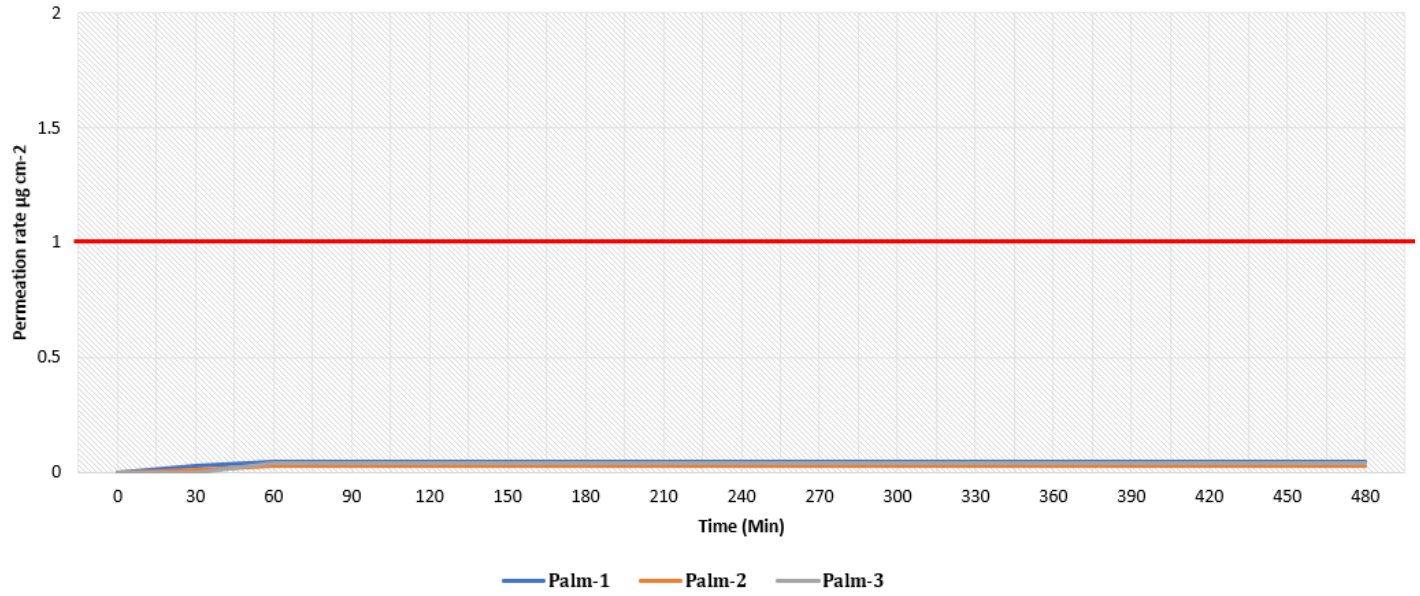
Hydrogen Peroxide 30% Permeation Graph



Hydrogen Peroxide 30% Permeation Graph

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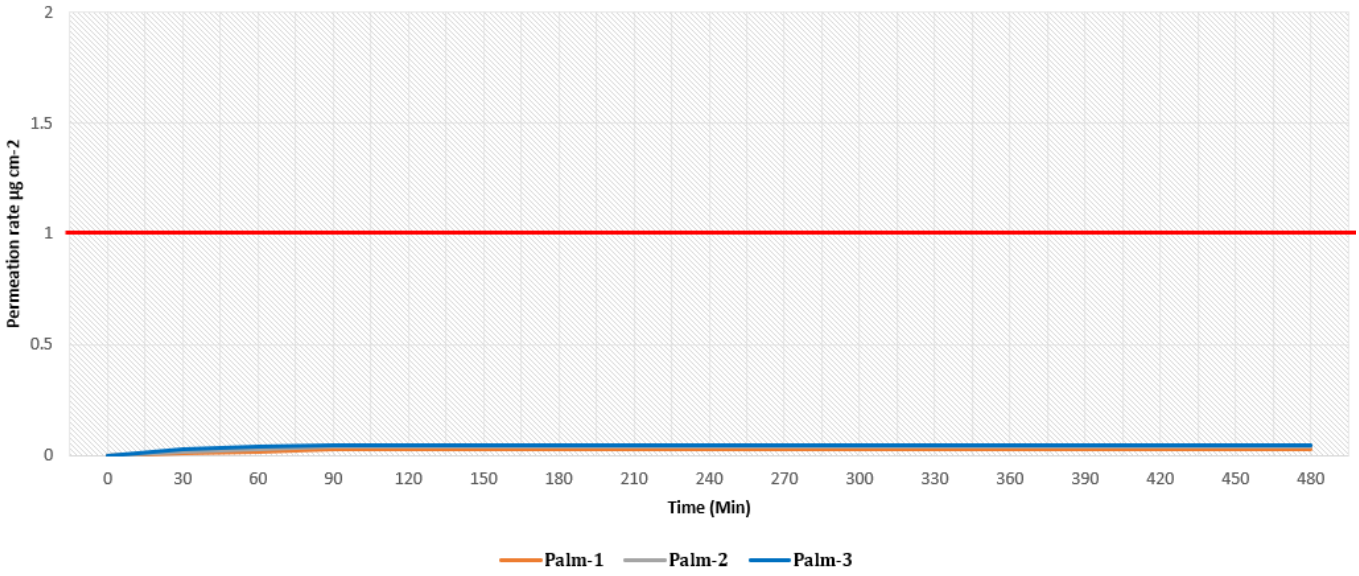
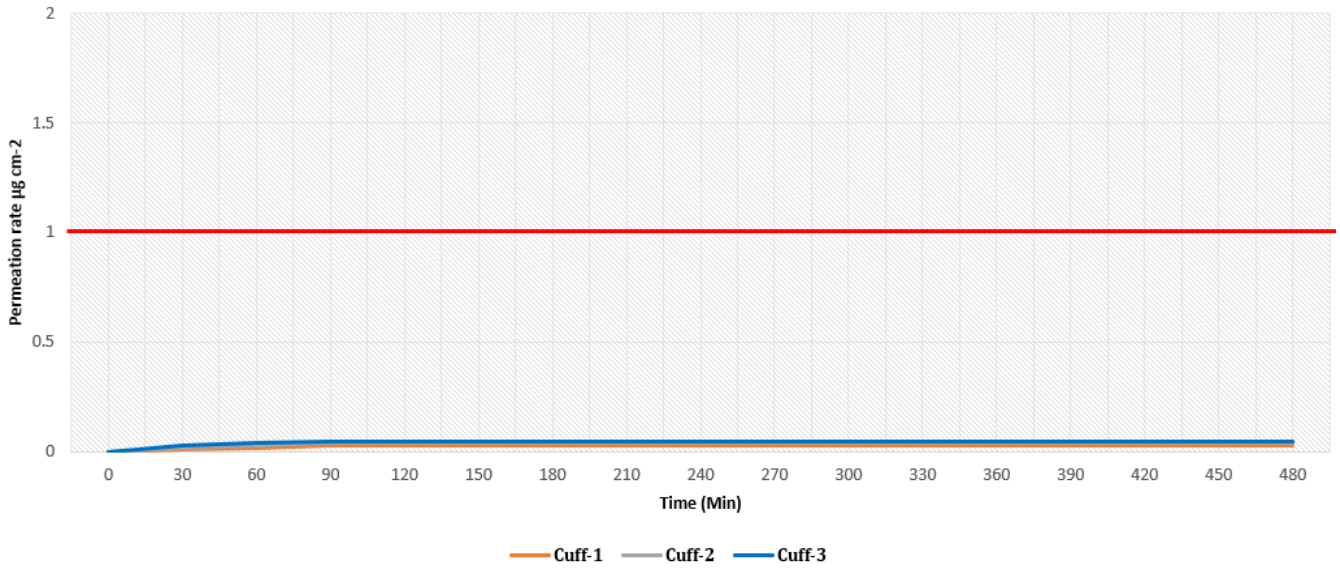
RESULTS

Formaldehyde 37% Permeation Graph



Formaldehyde 37% Permeation Graph



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SAMPLE IMAGE

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