

## TEST REPORT

Report No. : CH:TX:1342058284

DATE : 02/12/2022



## CEPHAS MEDICAL PRIVATE LIMITED

DP 33, 34, 46 &amp; 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](mailto:Feedback.SLT@sgs.com)

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## 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<br>CAS NO                                       | Loop<br>system/collection<br>medium/ Flow rate | Analytical<br>technique<br>used                                | Mean<br>thickness<br>(mm) | NBT at NPR<br>1.0 µg cm <sup>-2</sup><br>min <sup>-1</sup><br>(minutes) | Performance<br>level<br>accordance to<br>EN ISO 374-1:<br>2016+A1:2018<br>Table 1 | Observation        |
|----------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|
| Ammonium<br>hydroxide<br>25%<br>1336-21-6<br><b>PALM</b> | Closed loop/<br>Grade 3 water/<br>350rpm       | Continuous<br>measurement<br>With<br>Conductivity<br>electrode | 0.74<br>0.72<br>0.75      | >480<br>>480<br>>480                                                    | Level - 6                                                                         | Slight<br>swelling |
| Ammonium<br>hydroxide<br>25%<br>1336-21-6<br><b>CUFF</b> | Closed loop/<br>Grade 3 water/<br>350rpm       | Continuous<br>measurement<br>With<br>Conductivity<br>electrode | 0.55<br>0.54<br>0.56      | >480<br>>480<br>>480                                                    | Level - 6                                                                         | Slight<br>swelling |
| Hydrogen<br>peroxide 30%<br>7722-84-1<br><b>PALM</b>     | Closed loop/<br>Grade 3 water/<br>350rpm       | Periodic<br>measurement<br>with HPLC                           | 0.73<br>0.72<br>0.75      | >480<br>>480<br>>480                                                    | Level - 6                                                                         | Slight<br>swelling |
| Hydrogen<br>peroxide 30%<br>7722-84-1<br><b>CUFF</b>     | Closed loop/<br>Grade 3 water/<br>350rpm       | Periodic<br>measurement<br>with HPLC                           | 0.57<br>0.55<br>0.56      | >480<br>>480<br>>480                                                    | Level - 6                                                                         | Slight<br>swelling |
| Formaldehyde<br>37%<br>50-00-0<br><b>PALM</b>            | Closed loop/<br>Grade 3 water/<br>350rpm       | Periodic<br>measurement<br>with HPLC                           | 0.75<br>0.73<br>0.74      | >480<br>>480<br>>480                                                    | Level - 6                                                                         | Slight<br>swelling |
| Formaldehyde<br>37%<br>50-00-0<br><b>CUFF</b>            | Closed loop/<br>Grade 3 water/<br>350rpm       | Periodic<br>measurement<br>with HPLC                           | 0.56<br>0.54<br>0.57      | >480<br>>480<br>>480                                                    | Level - 6                                                                         | Slight<br>swelling |

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<br>(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

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## TEST REPORT

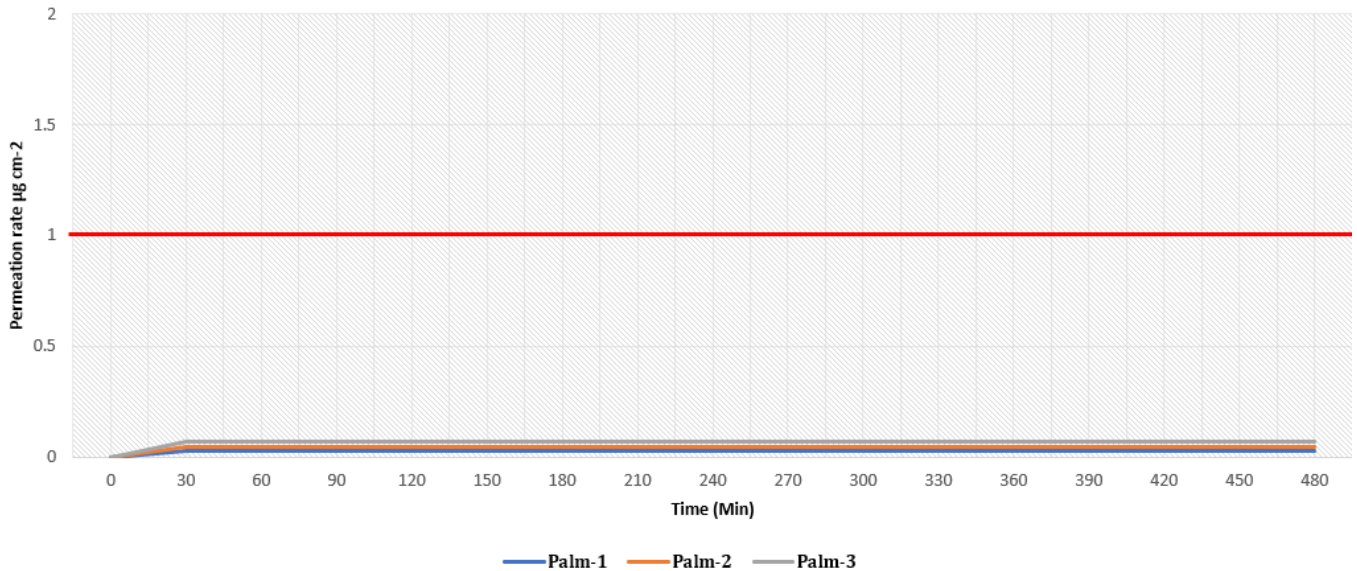
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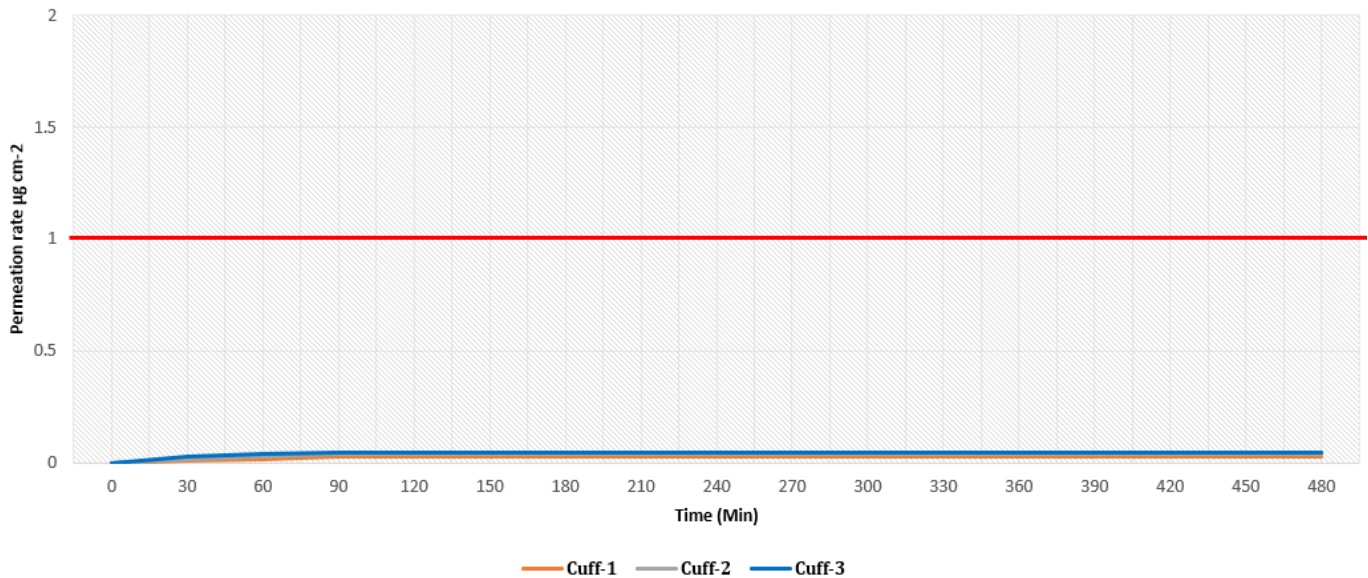


## RESULTS

## Ammonium Hydroxide 25% Permeation Graph



## Ammonium Hydroxide 25% Permeation Graph



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# TEST REPORT

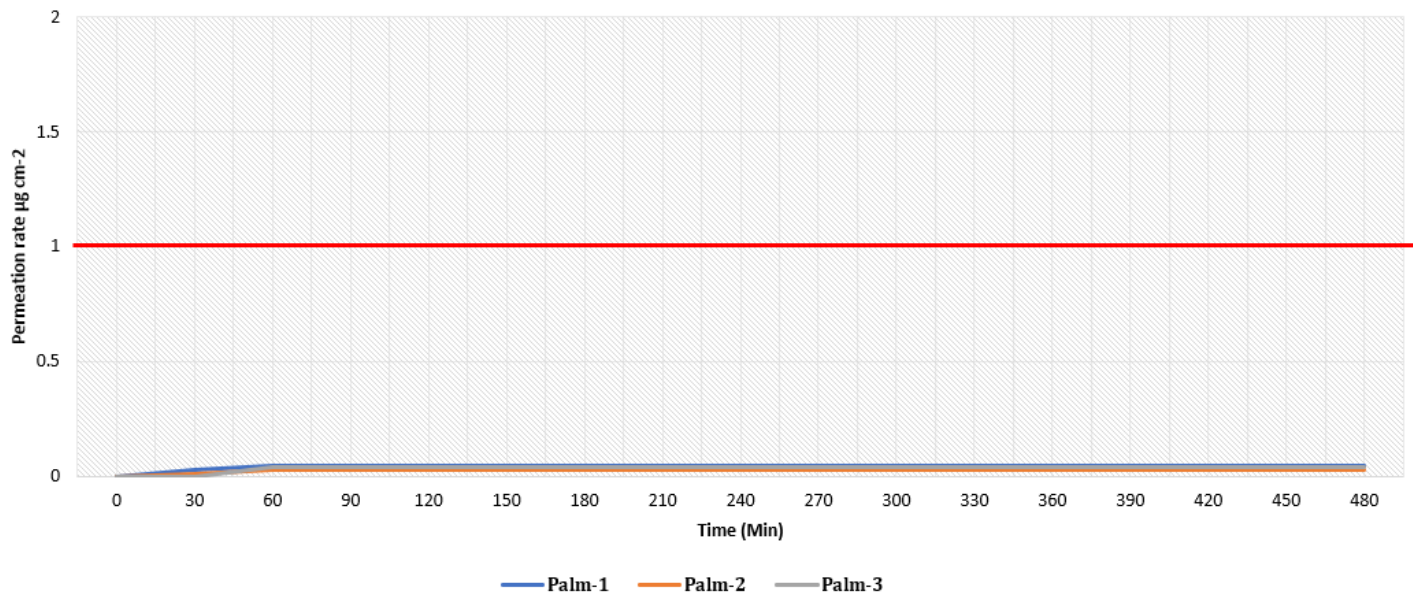
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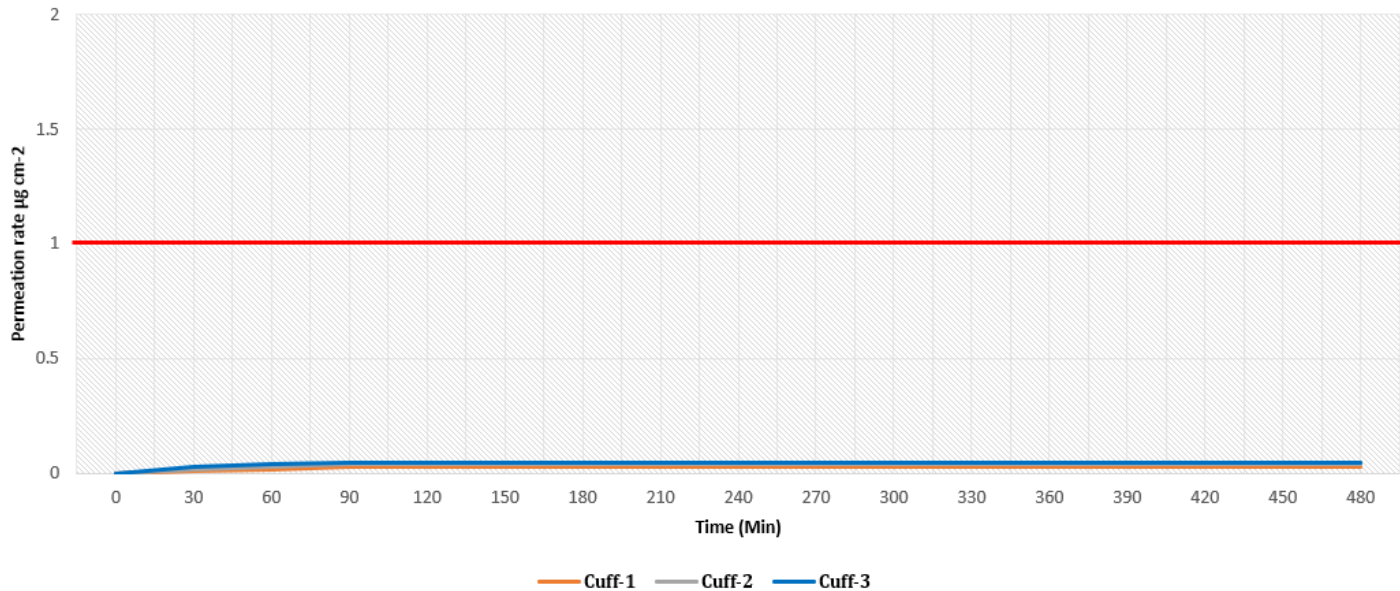


## RESULTS

### Hydrogen Peroxide 30% Permeation Graph



### Hydrogen Peroxide 30% Permeation Graph



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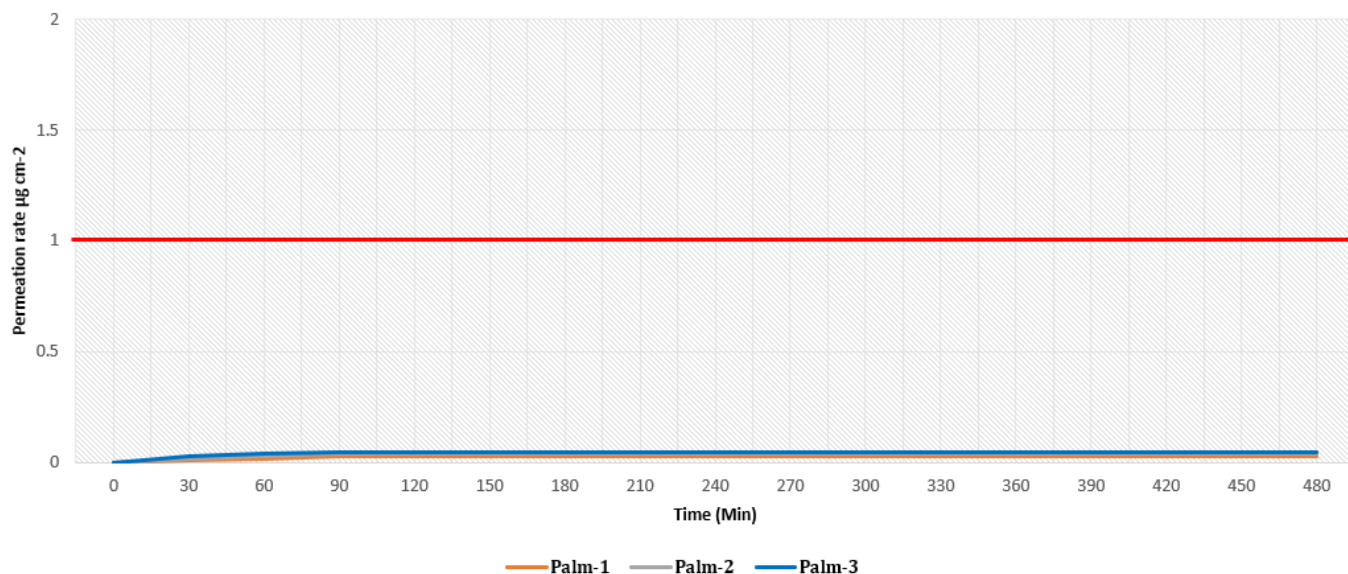
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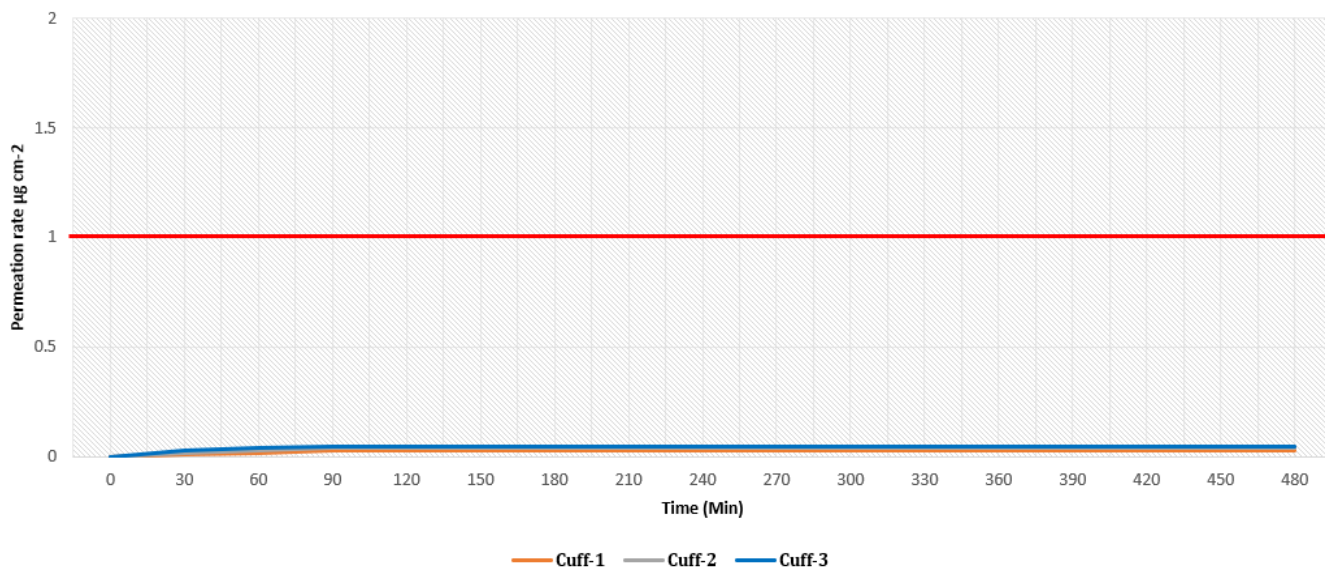


## RESULTS

## Formaldehyde 37% Permeation Graph



## Formaldehyde 37% Permeation Graph



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### SAMPLE IMAGE



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