



IAPMO INDIA PRIVATE LIMITED

<b>Document No.</b>	IAPMO/ILAB/TR/02
<b>Test Report No.</b>	IAPMO/ILAB/ 20337/24-25
<b>Date</b>	11.12.2024
<b>Revision No.</b>	01
<b>Reference</b>	NSF/ANSI - 53

**TEST REPORT**

<b>CUSTOMER DETAILS</b>	<b>SAMPLE DETAILS</b>	<b>TEST DETAILS</b>
<b>Name &amp; Address:</b> <b>RFT C/O KAJAH ACTIVATED CARBON</b> Pallapatty village, Madurai Trichy Highway, Kottampatti, Madurai District - 625103, Tamil Nadu	Submitted By: <b>RFT C/O KAJAH ACTIVATED CARBON</b>	<b>Protocol:</b> NSF/ANSI - 53
	Sample Code No.: IAPMO/ILAB/ 20337 /24-25	
	Customer Code No.: (A) RFT V 204	
	Sample Description: Carbon Block	
	Sample Received Date: 28.11.24	
	Date Of Analysis Started: 28.11.24	
	Date Of Analysis Completed: 11.12.24	
	Sample Quantity for Testing: 1	
Sample Condition When Received: Intact		

**EXECUTIVE SUMMARY:**

**RFT C/O Kajah Activated Carbon** submitted a carbon block for testing VOC reduction in accordance with **NSF/ANSI 53** standards. The testing was conducted at a flow rate of 3 LPM, following a 20-minute on & off cycle. A carbon block initially had a pressure of 29 psi and a flow rate of 3.00 LPM. Over 2500 liters, the pressure increased to 75 psi, while the flow rate decreased to 0.521 LPM. These carbon blocks are high efficiency in reducing VOCs. However, overtime leads to a gradual decrease in flow rate.

**CONCLUSION:**

The submitted carbon filter **meets** the standard requirement.

Chloroform [VOC]	Average influent challenge concentration	Maximum permissible product water concentration (mg/L)
	0.300 mg/L ± 10%	<0.015mg/L

**AIM OF THE EXPERIMENT:**

The primary aim is to determine VOC reduction as per NSF/ANSI-53.

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**FEED WATER COMPOSITION:**

TEST PARAMETERS	MAINTAINED CONCENTRATION DURING THE TEST
TDS (ppm)	200 ± 250 ppm
Turbidity (NTU)	<1
Pressure (psi)	25 - 75 psi
Temperature (°C)	23 ± 2 °C

**TEST DATA of 20337[(A) RFT V 204]:**

Sampling Points (Liters)	Pressure (psi)	Flow Rate (LPM)	Input VOC (mg/L)	Output VOC (mg/L)	Results
Initial	29	3.00	0.32	0.007	Pass
750	29.3	2.97	0.278	0.007	Pass
1000	29.0	2.58	0.278	0.008	Pass
1400	55.4	3.00	N/A	N/A	
1500	56.1	3.00	0.307	0.008	Pass
1800	59.9	2.66	0.326	0.008	Pass
2000	74.1	2.11	0.326	0.007	Pass
2300	75.6	1.46	0.325	0.010	Pass
2500	74.5	0.521	0.325	0.012	Pass

**PICTURE OF THE PRODUCT**



**Reviewed & Issued By**

**Mukthesh Pathi  
Director - Laboratory**

**---END OF THE TEST REPORT ---**

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