



# MAMCO ENTERPRISES

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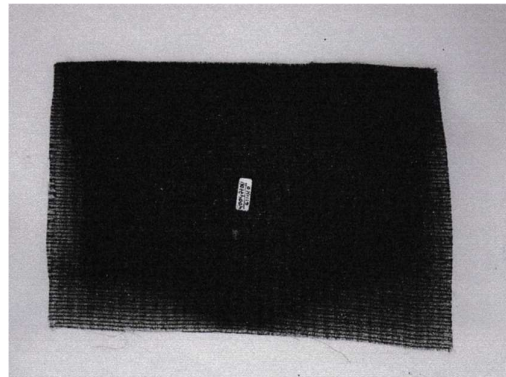
PROUD TO BE INDIAN

## TEST REPORT - BTS – 20042201/1

LAB NO : 2004220/1

Name Of Customer : Mamco Enterprises  
Address : Goregaon (west) , Mumbai -400104  
Reference : Letter Ref.No. Dated November 03,2020  
Date OF Receipt : 06/11/2020  
DATE Of Initiation : 06-11/2020  
Date Of Completion : 11/11/2020  
Sample Description : Filter Fabric Sample Labeled As:-

SR NO.	Description
1.	Filter Cloth -Black
Untreated Lab Control	



### Name of Test:

Determination Of Antibacterial Activity Of Textile Products by ISO 20743:2013(E) ; Quantitative Method

### Test Conditions:

Sterilization of Sample : Autoclaving  
Neutralizer Used : Buffered Saline with Triton X 100 – 0.01 %  
Contact Time : 20 hours  
Contact Temperature : 37<sup>0</sup> C  
Media and Reagent : Soyabean-casein digest agar

## ANTIBACTERIAL ACTIVITY

### 1.Filter cloth - black

Test Bacteria	Staphylococcus aureus		Klebsiella Pneumoniae	
Strain number	ATCC 6538		ATCC 4352	
Concentration of inoculums (cfu / ml)	1.80 x 10 <sup>5</sup>		1.90 x 10 <sup>5</sup>	
Difference of extremes for three Control specimens Untreated- Lab Control (log) (condition<1)	0 hours	20 hours	0 hours	20 hours
	0.009	0.051	0.012	0.077
Difference of extremes for three Antibacterial testing specimens (log) (condition<2)	0 hours	20 hours	0 hours	20 hours
	0.013	0.000	0.016	0.130
Growth value of F (F = log C <sub>1</sub> - log C <sub>0</sub> )	+ 1.497:(logC <sub>1</sub> : +6.51, log C <sub>0</sub> :+5.01)		+ 1.509(logC <sub>1</sub> : +6.53,log C <sub>0</sub> :+5.02)	
Growth value of G (G = log T <sub>1</sub> - log T <sub>0</sub> )	- 4.016:(logT <sub>1</sub> : +1.00, logT <sub>0</sub> :+5.01)		- 2.653 (logT <sub>1</sub> : +2.38,log T <sub>0</sub> :+5.03)	
Antibacterial activity value (A=F-G)	5.51 (99.99% bacterial reduction)		4.16 (99.99% bacterial reduction)	
Measuring Method	Plate Count Method			
Type of Sample Material	Filter Fabric			
Sterilisation Method	Autoclave			
Incubation Time	20 hrs			

### Antibacterial Efficacy:

Antibacterial Value A	Antibacterial Efficacy
2.0 ≤ A < 3.0	Significant
A ≥ 3.0	Strong

### COMMENT:

**When Tested as Specified, Fabric labeled as FILTER CLOTH- BLACK has shown STRONG ANTIBACTERIAL EFFICACY by Quantitative Assessment of activity for Staphylococcus Aureus and Klebsiella Pneumoniae by ISO 20743: 2013 (E) Test Method**