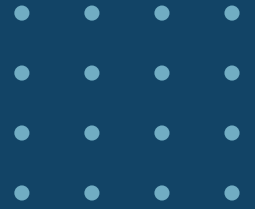


SUGU FABRICS & LINING





SUGU FABRICS & LINING

Sugu Fabrics and Linings, established in 2006, is a trusted manufacturer and supplier of needle felt made of FR, Aramid, M-Aramid, Preox, HPA, CPA, PTFE, Polyester, PP, Viscose, ultra-high molecular weight polyethylene fibers, garment accessories such as shoulder pads, under-collar felts, anti-microbial wiping fabrics, orthopedic cast padding, water-soluble film, and an array of other engineered fabrics.



Our factory is located in village Prithla, Faridabad, 30 km away from New Delhi International Airport, while our office is located in South Delhi's Okhla Industrial area."

Quality first, service-oriented, good faith, truth-speaking innovation is our company's purpose. We would like to cooperate with all friends to achieve a win-win profit. Potential buyers are welcome to contact us.





NEEDLE PUNCH TECHNOLOGY— ADVANCED MATERIAL

Flammability test: ISO 6941

| | | | |
|---|--|---|---------|
| 1 | Meta-aramid/Preox (60/40) | No sign of melting, dripping. No after flame and no afterglow | Level 4 |
| 2 | FR viscose /Meta-aramid (60/40) | No sign of melting, dripping. No after flame and no afterglow | Level 4 |
| 3 | FR viscose/Para-aramid (60/40) | No sign of melting, dripping. No after flame and no afterglow | Level 4 |
| 4 | FR viscose/Para-aramid/low-melt (50/34/16) | No sign of melting, dripping. No after flame and no afterglow | Level 4 |

Contact heat: ISO 12127-part 1 @ 100°C

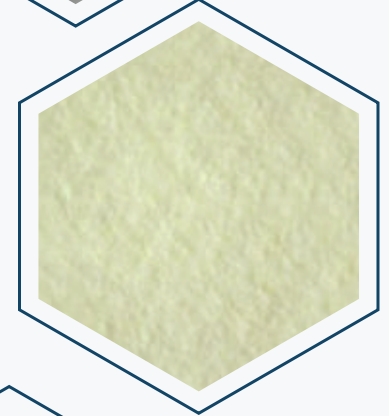
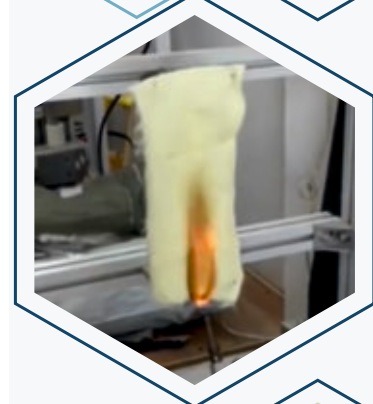
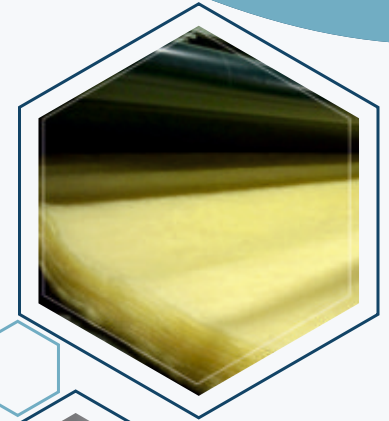
| Meta-aramid/Preox (50/40) | | FR viscose /Meta-aramid (60/40) | | FR viscose/Para-aramid (50/40) | | FR viscose/Para-aramid/low-melt (50/34/16) | |
|---------------------------|-----------------------|---------------------------------|-----------------------|--------------------------------|-----------------------|--|-----------------------|
| GSM (g/m ²) | Performance level (s) | GSM (g/m ²) | Performance level (s) | GSM (g/m ²) | Performance level (s) | GSM (g/m ²) | Performance level (s) |
| 100 | 32.8 | 100 | 22.5 | 90 | 22.9 | 110 | 25.9 |
| 120 | 38.1 | 115 | 32.9 | | | | |
| 125 | 43.8 | 140 | 36.5 | | | | |
| 130 | 47.2 | 150 | 40.9 | | | | |
| 140 | 55 | 180 | 43.1 | | | | |
| 170 | 64 | | | | | | |

All samples passed level 1 as Threshold time was ≥ 15 s at 100°C

Radiant heat: ISO 6942 @ 20 KW/m²

| Meta-aramid/Preox (60/40) | | FR viscose /Meta-aramid (60/40) | | FR viscose/Para-aramid (60/40) | | FR viscose/Para-aramid/low-melt (50/34/16) | |
|---------------------------|-----------------------|---------------------------------|-----------------------|--------------------------------|-----------------------|--|-----------------------|
| GSM (g/m ²) | Performance level (s) | GSM (g/m ²) | Performance level (s) | GSM (g/m ²) | Performance level (s) | GSM (g/m ²) | Performance level (s) |
| 100 | 67 | 100 | 60 | 90 | 73 | 110 | 85 |
| 140 | 78 | 140 | 72 | | | | |
| 170 | 89 | 180 | 93 | | | | |

All samples passed level 3 as heat transmission index time ≥50 s and <95 s



After Treatment Capabilities

- Calendaring
- Padding & Oven
- Lamination-With Nonwoven/Fabric, With release paper, Membrane, Aluminized film.

Final Converting

- Short rolls converting-25 running meters
- Individual width assembly-40 mm-3200 mm
- Different Shapes: CNC Cutter, Hydraulic Press



THERMO ACOUSTIC INSULATION PANELS



Thermal Insulation

| Polyester Non woven | | | | | |
|---------------------|------|----------------------------|---|--|--------------------------|
| Fabric code | GSM | Thickness - Mentioned (mm) | Thickness - Tested at 2 kPa pressure (mm) | Thermal Resistance (log C. m ² / W) | Thermal Insulation (log) |
| 1 | 1100 | 50 | 34.3 | 0.9178 | 8.93 |
| 2 | 950 | 50 | 23.82 | 0.9820 | 8.25 |
| 3 | 750 | 12 | 9.52 | 0.4958 | 2.83 |
| 4 | 1200 | 25 | 22.31 | 0.9758 | 4.58 |
| 5 | 1100 | 25 | 21.2 | 0.817 | 3.85 |
| 6 | 1080 | 25 | 21.38 | 0.6738 | 2.34 |
| 7 | 1080 | 50 | 52.22 | 1.0288 | 8.83 |
| 8 | 1700 | 50 | 49.32 | 1.3165 | 8.49 |
| 9 | 2200 | 50 | 52.88 | 0.7618 | 4.76 |
| 10 | 2550 | 50 | 53.81 | 1.4758 | 9.4 |
| 11 | 2000 | 50 | 54.1 | 0.7821 | 4.91 |

Note: Air permeability experiments for samples with thickness of 50 mm are not feasible in physical testing laboratory because the testing instruments are not suitable materials with thickness greater than 10 mm.

Sound Absorption Test

| GSM | Sound absorption coefficient (SAC) | | | | | | | | | | |
|-------------------------|------------------------------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1100 | 950 | 750 | 1200 | 1100 | 1000 | 1650 | 1700 | 2200 | 2550 | 2000 |
| Thickness mentioned(mm) | 50 | 50 | 12 | 25 | 25 | 25 | 50 | 50 | 50 | 50 | 50 |
| Frequency (Hz) | | | | | | | | | | | |
| 63 | 0.131 | 0.09 | -0.057 | 0.09 | 0.056 | 0.053 | 0.197 | 0.098 | 0.019 | 0.188 | 0.455 |
| 80 | 0.115 | 0.03 | 0.047 | 0.03 | 0.036 | 0.179 | 0.26 | 0.12 | 0.124 | 0.265 | 0.37 |
| 100 | 0.109 | 0.072 | 0.028 | 0.072 | 0.059 | 0.21 | 0.255 | 0.095 | 0.187 | 0.242 | 0.346 |
| 125 | 0.116 | 0.082 | 0.05 | 0.082 | 0.071 | 0.194 | 0.237 | 0.104 | 0.206 | 0.235 | 0.342 |
| 200 | 0.147 | 0.115 | 0.04 | 0.115 | 0.077 | 0.193 | 0.25 | 0.168 | 0.244 | 0.262 | 0.342 |
| 250 | 0.159 | 0.132 | 0.06 | 0.132 | 0.094 | 0.185 | 0.248 | 0.199 | 0.275 | 0.292 | 0.339 |
| 315 | 0.202 | 0.165 | 0.068 | 0.165 | 0.115 | 0.19 | 0.224 | 0.242 | 0.308 | 0.311 | 0.377 |
| 400 | 0.242 | 0.17 | 0.073 | 0.17 | 0.135 | 0.194 | 0.29 | 0.295 | 0.376 | 0.384 | 0.425 |
| 500 | 0.274 | 0.205 | 0.084 | 0.205 | 0.153 | 0.201 | 0.386 | 0.347 | 0.443 | 0.458 | 0.484 |
| 630 | 0.333 | 0.261 | 0.117 | 0.261 | 0.196 | 0.23 | 0.47 | 0.432 | 0.537 | 0.561 | 0.572 |
| 800 | 0.372 | 0.33 | 0.124 | 0.33 | 0.233 | 0.263 | 0.568 | 0.51 | 0.65 | 0.677 | 0.684 |
| 1000 | 0.438 | 0.4 | 0.154 | 0.4 | 0.295 | 0.309 | 0.669 | 0.599 | 0.752 | 0.79 | 0.784 |
| 1250 | 0.5 | 0.438 | 0.176 | 0.438 | 0.359 | 0.34 | 0.742 | 0.658 | 0.792 | 0.864 | 0.834 |
| 1600 | 0.557 | 0.546 | 0.207 | 0.546 | 0.451 | 0.374 | 0.811 | 0.709 | 0.812 | 0.91 | 0.861 |
| 2000 | 0.607 | 0.638 | 0.251 | 0.638 | 0.56 | 0.457 | 0.831 | 0.747 | 0.825 | 0.904 | 0.869 |
| 2500 | 0.623 | 0.712 | 0.308 | 0.712 | 0.676 | 0.555 | 0.797 | 0.742 | 0.804 | 0.862 | 0.842 |
| 3150 | 0.613 | 0.735 | 0.39 | 0.735 | 0.782 | 0.654 | 0.755 | 0.725 | 0.798 | 0.848 | 0.834 |
| 4000 | 0.655 | 0.719 | 0.494 | 0.719 | 0.844 | 0.716 | 0.805 | 0.775 | 0.863 | 0.929 | 0.903 |
| 5000 | 0.714 | 0.713 | 0.602 | 0.713 | 0.851 | 0.729 | 0.889 | 0.831 | 0.898 | 0.957 | 0.93 |
| 6300 | 0.738 | 0.774 | 0.716 | 0.774 | 0.825 | 0.697 | 0.86 | 0.815 | 0.881 | 0.919 | 0.9 |
| NRC | 0.37 | 0.35 | 0.14 | 0.35 | 0.28 | 0.29 | 0.52 | 0.47 | 0.57 | 0.61 | 0.61 |

Acoustic

| Polyester Non woven | | | | |
|---------------------|------|----------------------------|--|------------------------------|
| Fabric code | GSM | Thickness - Mentioned (mm) | Sound absorption coeff. (SAC, 5000 Hz) | Noise reduction coeff. (NRC) |
| 1 | 1100 | 50 | 0.911 | 0.31 |
| 2 | 950 | 50 | 0.881 | 0.2 |
| 3 | 750 | 12 | 0.822 | 0.16 |
| 4 | 1200 | 25 | 0.943 | 0.39 |
| 5 | 1100 | 25 | 0.897 | 0.28 |
| 6 | 1000 | 25 | 0.846 | 0.21 |
| 7 | 1650 | 50 | 0.977 | 0.43 |
| 8 | 1700 | 50 | 0.815 | 0.5 |
| 9 | 2200 | 50 | 0.972 | 0.58 |
| 10 | 2550 | 50 | 0.984 | 0.61 |
| 11 | 2000 | 50 | 0.958 | 0.54 |

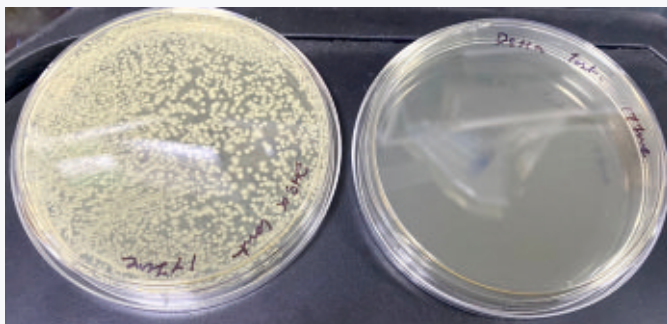
Note: Air permeability experiments for samples with thickness of 50 mm are not feasible in physical testing laboratory because the testing instruments are not suitable materials with thickness greater than 10 mm.

Acoustics-determination of sound absorption coefficient and impedance in impedance tubes
Specimen is tested under Temperature: 24.0°C Humidity: 50.0% Atmospheric Pressure: 101325.0Pa
And the other parameter, Density of Air: 1.2kg/m³ Velocity of Sound: 345.622m/s
Characteristic impedance of Air: 404.183Pa's/m
Results below are according to ISO 10534-2:1998 (GB/T 18696.2-2002)



ANTI-BACTERIAL CLEANING!

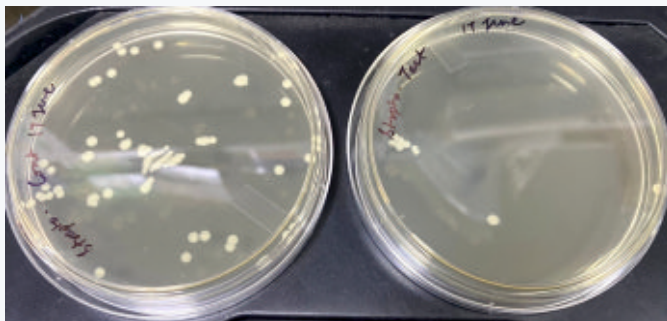
Innovative technology
meets antibacterial
cleaning with our DRY
wipes



Control

Test

E. coli



Control

Test

S. Aureus



**INHIBIT
BACTERIAL
GROWTH
>95%**

Sustainable choice
for your health and
the environment

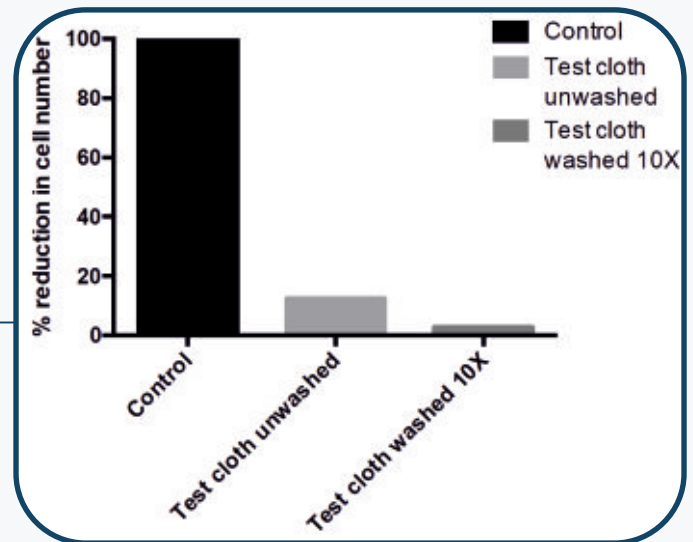
**Our antibacterial
wipes do the trick!**

A healthier you and
a healthier planet -
all with our antibacterial
and reusable wipes.
It's the ultimate win-win



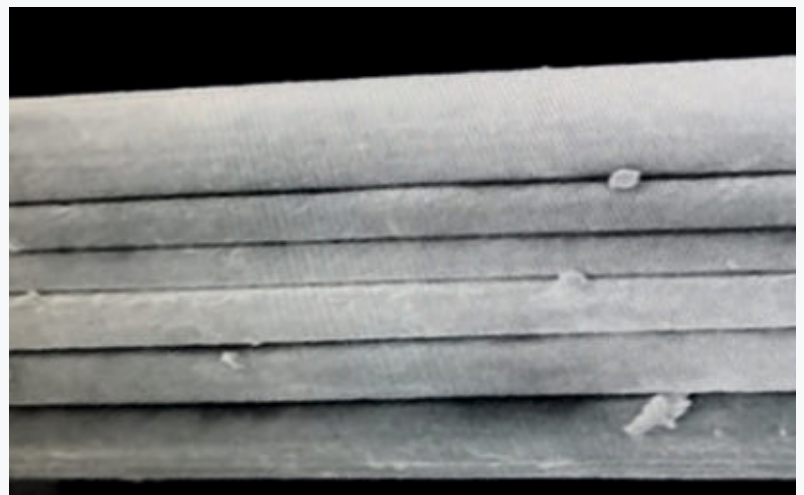
ANTIBACTERIAL NEEDLE PUNCH FABRIC

Our fabric exhibits antibacterial properties even after repeated washing. The results shown in the above graph validate our claim



How do we do it?

Through our proprietary method, we enrich our fabric with nanoparticles, as visualized through SEM (scanning electron microscope).



Our antibacterial fabric is versatile and can be converted into dry wipes that are ideal for a range of indoor and outdoor cleaning purposes. These wipes are perfect for cleaning kitchen surfaces, furry pets, children's toys, school furniture, high-touch surface areas such as lifts, handrails, and door knobs, assistive devices, bathroom furniture and fixtures.

Additionally, this fabric can be converted into bed sheets for patient care, and laminated with TPU membrane to make it waterproof. The fabric texture can be enhanced with different prints and embossing patterns, and it is available in six colors to suit We offer fabric cutting and packing



services to produce wipes in a 4-fold form, with embossed sizes of 12cm x 16cm, 13cm x 16cm, 14cm x 16cm, 15cm x 16cm, and 16cm x 16cm different needs

We offer perforation options in the Roll form at intervals of 15cm, 20cm, 25cm, and 30cm. The perforation distance is also customizable based on client requirements.

The fabric texture can be enhanced with different prints and embossing patterns, and it is available in six colors to suit different needs



SKIN SENSITIVITY TEST



BIOTECH TESTING SERVICES

TEST REPORT

LAB NO. : 2003232/ 1

DATE: 11/09/2020

NAME OF CUSTOMER : M/S. SUVI EXPORTS LLP
ADDRESS : X-48, Okhla Industrial Area
Phase-II, New Delhi-110020
REFERENCE : Letter Ref. No. dated September 05, 2020
Kind Attention: Manish Gulati
DATE OF RECEIPT : 05/09/2020
DATE OF INITIATION : 05/09/2020
DATE OF COMPLETION : 11/09/2020
SAMPLE DESCRIPTION : TEST SAMPLE LABELED AS: -

| Sr.No | Description |
|-------|---------------------------|
| 1. | Non Woven Fabric "VF 100" |



Page 1 of 4

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Email : info@biotechts.in / report@biotechts.in / biotechtestingservices@gmail.com / shilpanair@biotechts.in

Name of Test and Test Standard:

Invitro Cytotoxicity test

Test Standard:

1. ISO 10993-5:2009 (E)- Biological evaluation of medical devices; Tests for in vitro cytotoxicity
2. ISO 10993-12:2004 (E) - Biological evaluation of medical devices; Sample preparation and reference materials.

Scope of test:

Test for cytotoxicity are designed to determine the biological response of mammalian cells to the test material/ Extract of test material. At the end of the exposure time, the evaluation of the presence and the extent of Cytotoxic effect is assessed. It signifies Biological compatibility of the test material and its potential to cause cell damage.

Cells line and Experimental details:

| | | |
|------------------------|---|---|
| Cell line | : | L929 – Mouse Connective tissue; Used for assay for the below stated reasons |
| | | <ul style="list-style-type: none">• Low maintenance• high correlation with specific animal assay• First cell types that attach to implanted medical devices.• Better reproducibility and accuracy of the cytotoxic response. |
| Passage No. | : | Cells from PN 168 |
| Cell Culture Medium | : | Complete MEM medium with 10% FBS |
| Positive Control | : | 0.001% SDS (Sodium Dodecyl sulphate) solution |
| Medium Control / Blank | : | Complete MEM medium with 10% FBS |
| Diluent | : | Complete MEM medium |
| Concentration used | : | 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90% and 100% (neat) |

Incubation Condition:

37°C with 5% Carbon dioxide atmosphere

Sample Preparation:

Representative portion of the supplied test sample was used for the assay.

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Page 2 of 4

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Sample extraction:

1gm sample was sterilized at 121°C for 15mins to which 10 ml Complete MEM medium was added (0.01g/ml) and incubated at 37°C for 24 hrs.

Assay Principle:

MTT (3-(4, 5 dimethylthiazol-2-yl)-2,5 diphenyl tetrazolium bromide Cytotoxicity assay. Test procedure is based on measurement of viability of cells via metabolic activity. Yellow water soluble MTT is metabolically reduced in viable cells to a blue violet insoluble Formazan. The number of viable cells co-relates to the colour intensity determined by photometric measurement after dissolving the formazan in DMSO.

Assay Procedure:

L929 cells seeded in 96 well plates at a concentration of 10,000 cells per 100 µl of MEM culture medium per well were maintained in culture for 24 hours to form a semi confluent layer and were exposed to the test material over a range of concentration. After 24 hours exposure, Formazan formation is determined for each treatment concentration and compared to that determined in growth control.

For each treatment the percentage inhibition of growth is calculated by Viability of cells as per formula –

$$\text{Viability Percentage} = \frac{100 \times \text{O. D. } 570 \text{ nm for extract}}{\text{O. D. } 570 \text{ nm for blank}}$$

Evaluation criteria:

The lower the viability percentage value, the higher the cytotoxic potential.

The percentage viability of 100% test sample is < 70%, it has cytotoxic potential.

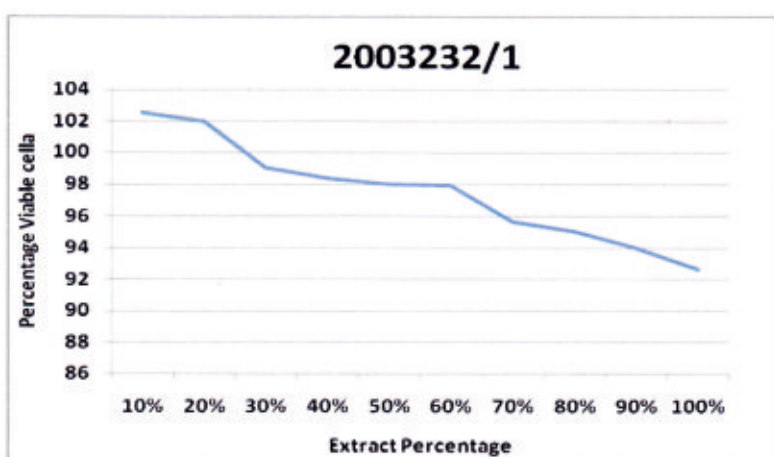
The percentage viability of 100% test sample is ≥ 70%, it is non cytotoxic.



BIOTECH TESTING SERVICES

Results:

| 2003232/1 | Neg. control | Pos. control | Growth control | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% |
|------------------|--------------|--------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| % cell viability | - | 0.900 | 100 | 102.5 | 101.9 | 99.02 | 98.37 | 97.99 | 97.97 | 95.68 | 95.07 | 94.01 | 92.67 |
| P value | - | - | - | 0.98 | 0.95 | 0.92 | 0.90 | 0.85 | 0.84 | 0.71 | 0.70 | 0.69 | 0.43 |



INTERPRETATION:

1. For the assay, a concentration range from 10%- 100% was maintained.
2. At all concentration set in the assay the sample was found to be Non toxic to the cells
3. The values obtained were statistically significant with a p-value <0.05.

CONCLUSION:

Test product labeled as Non Woven Fabric "VF 100" under the extract testing conditions is found to be Non toxic for the cells of cellular culture.

Disclaimer:

Any cytotoxic effect can be of concern. However, it is primarily an indication of potential for invivo toxicity and test material cannot necessarily be considered unsuitable for a given clinical application based solely on cytotoxicity data.

For BIOTECH TESTING SERVICES



Dr Shilpa U. Nair
Quality Manager
(Authorized Signatory)

2003232/1
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ANTIMICROBIAL EFFICACY OF TOWLETTE SAMPLE



BIOTECH TESTING SERVICES

TEST REPORT

LAB NO. : 2003204/ 1

DATE: 11/09/2020

NAME OF CUSTOMER : M/S. SUVI EXPORTS LLP
ADDRESS : X-48, Okhla Industrial Area
Phase-II, New Delhi-110020
REFERENCE : Letter Ref. No. dated September 05, 2020
Kind Attention: Manish Gulati
DATE OF RECEIPT : 05/092020
DATE OF INITIATION : 05/09/2020
DATE OF COMPLETION : 11/09/2020
SAMPLE DESCRIPTION : TEST SAMPLE LABELED AS: -

| Sr. No. | Description |
|---------|------------------------|
| 1. | NON WOVEN FABRIC -APIT |



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Email : info@biotechts.in / report@biotechts.in / biotechtestingservices@gmail.com / shilpanair@biotechts.in



BIOTECH TESTING SERVICES

Name of Test:

Customer specified Method

US EPA Standard Operating Procedure for Disinfectant Towelette Test: Testing of *Staphylococcus aureus*, *Pseudomonas aeruginosa* and *Salmonella enterica*. The test is based on AOAC Method 961.02 (Germicidal Spray Products as Disinfectants)

Objective:

To study the Antimicrobial efficacy of Towellette samples

Scope:

Method describes the methodology used to determine the efficacy of Towelette-based disinfectants against *Staphylococcus aureus*, *Pseudomonas aeruginosa*, and *Salmonella enterica* on hard surfaces

Test Organisms:

1. *Staphylococcus aureus* (ATCC No. 6538)
2. *Pseudomonas aeruginosa* (ATCC No. 15442)
3. *Salmonella enterica* (ATCC No. 10708)

Additional Test Information:

1. Sample size: 18×18 cm
2. Towelette with 5 folds like Paper fan; The area of the towelette used for wiping is folded and rotated so as to expose a new surface of the towelette for each carrier.
 1. No. of wipes used for 10 slides: 1 in 5 folds (front and Back)
 2. Carrier: Glass Slide Carriers, 25 mm × 75 mm
 3. Method of Sterilization of sample: UV Sterilization
 4. Inoculum Carrier: Phosphate Buffered water
 5. Neutralizer: DE Broth
 6. Media: Nutrient broth for culture transfer; Trypticase soya agar for Plating and Carrier Enumeration
 7. Method of wiping: Back and Forth 3 times
 8. Contact time for wiping carriers (glass slide) surface: 10 seconds
 9. Contact time given to wipes after use: 15 minutes

Culture Preparation:

Test cultures maintained in Nutrient Broth. Inoculate 10 ml Nutrient broth with 10µl of 24 hr old Culture, vortexed, incubated for 48-54 hours. at 37°C.

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BIOTECH TESTING SERVICES

Carrier Inoculation:

Inoculate 80 carriers. 60 carriers for Testing 3 cultures in duplicate. Rest for Viability and Sterility Control. Middle portion of broth culture was diluted, OD adjusted at 650 nm for obtaining 10^7 CFU/ ml. (1 part culture + 1 part Saline broth). Diluted culture was used for Carrier within 30 minutes.

10 μ l culture was spread on Test carrier placed in Petridish. Culture was placed at the end of the slide and spread with Nichome wire. Dry the carrier in Incubator at $36 \pm 1^\circ\text{C}$ for 30 minutes. Test should be performed within 2 hours of drying.

Two set of 3 carriers are evaluated for Viable count, one immediately prior to conducting Efficacy test and one set immediately following the test. For determining count, dry carrier is placed in 50 ml conical tube containing 20 ml Lethen broth. Vortexed for 60 seconds for *Pseudomonas aeruginosa*, 120 seconds for *Staphylococcus aureus* and *Salmonella enterica*. After vortexing, serial 10 fold dilutions done in Phosphate buffered Distilled water, 0.1 ml aliquots plated on Trypticase Soya agar. Alternatively Broth can be pooled for 3 carriers and plated.

Test Procedure:

Aseptically removed Towelette, folded lengthwise. Beginning with bottom, folded upwards the top 5 times. This was used to perform the wiping procedure.

Petriplate having carrier is removed. Carrier is visible, wipe the slide back and forth 3 times lengthwise with Towelette for total of 6 passes (3 back and 3 forth). Wiping should be done within 5 seconds. Maintain carrier in Vertical position.

Wiping procedure is repeated with each folding section to expose new surface for wiping each slide. After 5th slide, unfold vertical fold and reverse the towelette so that the used surface of the towelette face inward. Continue wiping on additional 5 slide folding towelette between each slide to expose a new surface.

After the last slide of the test (10th one), Transfer each slide into Primary subculture tube containing neutralizer within 5 seconds. Drain the excess disinfectant from each slide before the transfer. While placing wiped end of the slide should be dropped into neutralizer and diluted serially in duplicates on SCDA plates. Incubate plates for 48 hours at 37°C .

Viability Control:

Dried untreated carriers are separately added to Neutralizer subculture broth. Incubate tubes along with Efficacy test.

Sterility Control:

Sterile untreated carriers before and after drying are placed into separate tubes of Neutralizing broth to perform serial dilution and enumeration

2003204/1
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BIOTECH TESTING SERVICES

Controls:

1. Viable counts of *Staphylococcus aureus* on carrier glass slides before and after drying of inoculum

| Sample Description | Count Obtained (CFU) | Log value |
|--------------------------------------|----------------------|-----------|
| VC1 (Before drying) | 6.00×10^5 | 5.78 |
| VC2 (Before drying) | 6.50×10^5 | 5.81 |
| VC3 (Before drying) | 6.30×10^5 | 5.80 |
| VC4 (Before drying) | 6.10×10^5 | 5.79 |
| VC5 (Before drying) | 6.00×10^5 | 5.78 |
| VC6 (After 30 minutes of drying) | 5.90×10^5 | 5.77 |
| VC7 (After 30 minutes of drying) | 6.80×10^4 | 4.83 |
| VC8 (After 30 minutes of drying) | 6.70×10^4 | 4.83 |
| VC9 (After 30 minutes of drying) | 5.20×10^5 | 5.72 |
| VC10 (After 30 minutes of drying) | 5.90×10^5 | 5.77 |

2003204/1
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BIOTECH TESTING SERVICES

2. Viable counts of *Pseudomonas aeruginosa* on carrier glass slides before and after drying of inoculum

| Sample Description | Count Obtained (CFU) | Log value |
|--------------------------------------|----------------------|-----------|
| VC1 (Before drying) | 5.20×10^5 | 5.71 |
| VC2 (Before drying) | 5.80×10^5 | 5.76 |
| VC3 (Before drying) | 5.40×10^5 | 5.73 |
| VC4 (Before drying) | 5.10×10^5 | 5.70 |
| VC5 (Before drying) | 5.60×10^5 | 5.74 |
| VC6 (After 30 minutes of drying) | 5.20×10^5 | 5.71 |
| VC7 (After 30 minutes of drying) | 4.80×10^4 | 4.68 |
| VC8 (After 30 minutes of drying) | 6.10×10^4 | 4.78 |
| VC9 (After 30 minutes of drying) | 5.10×10^5 | 5.70 |
| VC10 (After 30 minutes of drying) | 4.60×10^5 | 4.66 |

3. Viable counts of *Salmonella enterica* on carrier glass slides before and after drying of inoculum

| Sample Description | Count Obtained (CFU) | Log value |
|--------------------------------------|----------------------|-----------|
| VC1 (Before drying) | 4.80×10^5 | 4.68 |
| VC2 (Before drying) | 5.20×10^5 | 4.71 |
| VC3 (Before drying) | 5.50×10^5 | 4.74 |
| VC4 (Before drying) | 5.80×10^5 | 4.76 |
| VC5 (Before drying) | 5.10×10^5 | 4.70 |
| VC6 (After 30 minutes of drying) | 5.70×10^5 | 4.75 |
| VC7 (After 30 minutes of drying) | 4.10×10^4 | 4.61 |
| VC8 (After 30 minutes of drying) | 4.00×10^4 | 4.60 |
| VC9 (After 30 minutes of drying) | 4.70×10^5 | 4.67 |
| VC10 (After 30 minutes of drying) | 4.90×10^5 | 4.69 |

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104/105, Malwa, Patanwala Ind. Estate, L.B.S. Marg, Ghatkopar (W), Mumbai - 400086, INDIA • Tel. : +91-22-2500 2811, 2500 2812
Email : info@biotechts.in / report@biotechts.in / biotechtestingservices@gmail.com / shilpanair@biotechts.in



BIOTECH TESTING SERVICES

Results:

1. Viable counts of *Pseudomonas aeruginosa* on carrier glass slides wiped with Fabric

| Sample | Description | Count Obtained (CFU) | Log value |
|-----------------|-------------|----------------------|-----------|
| T ₁ | | < 10 | < 1 |
| T ₂ | | < 10 | < 1 |
| T ₃ | | < 10 | < 1 |
| T ₄ | | < 10 | < 1 |
| T ₅ | | < 10 | < 1 |
| T ₆ | | < 10 | < 1 |
| T ₇ | | < 10 | < 1 |
| T ₈ | | < 10 | < 1 |
| T ₉ | | < 10 | < 1 |
| T ₁₀ | | < 10 | < 1 |

2. Viable counts of *Staphylococcus aureus* on carrier glass slides wiped with Fabric

| Sample | Description | Count Obtained (CFU) | Log value |
|-----------------|-------------|------------------------|-------------|
| T ₁ | | < 10 | < 1 |
| T ₂ | | < 10 | < 1 |
| T ₃ | | < 10 | < 1 |
| T ₄ | | 1.32 x 10 ² | 2.12 |
| T ₅ | | < 10 | < 1 |
| T ₆ | | < 10 | < 1 |
| T ₇ | | < 10 | < 1 |
| T ₈ | | < 10 | < 1 |
| T ₉ | | < 10 | < 1 |
| T ₁₀ | | < 10 | < 1 |

3. Viable counts of *Salmonella enterica* on carrier glass slides wiped with Fabric

| Sample | Description | Count Obtained (CFU) | Log value |
|-----------------|-------------|----------------------|-----------|
| T ₁ | | < 10 | < 1 |
| T ₂ | | < 10 | < 1 |
| T ₃ | | < 10 | < 1 |
| T ₄ | | < 10 | < 1 |
| T ₅ | | < 10 | < 1 |
| T ₆ | | < 10 | < 1 |
| T ₇ | | < 10 | < 1 |
| T ₈ | | < 10 | < 1 |
| T ₉ | | < 10 | < 1 |
| T ₁₀ | | < 10 | < 1 |

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BIOTECH TESTING SERVICES

INTERPRETATION:

Sample labeled as NON WOVEN FABRIC –APIT has shown Good Disinfection property towards *Staphylococcus aureus*, *Pseudomonas aeruginosa* and *Salmonella enterica* when tested as per Customer specified US EPA Standard Operating Procedure for Disinfectant Towelettes.

For BIOTECH TESTING SERVICES



Dr Shilpa U. Nair
Quality Manager
(Authorized Signatory)

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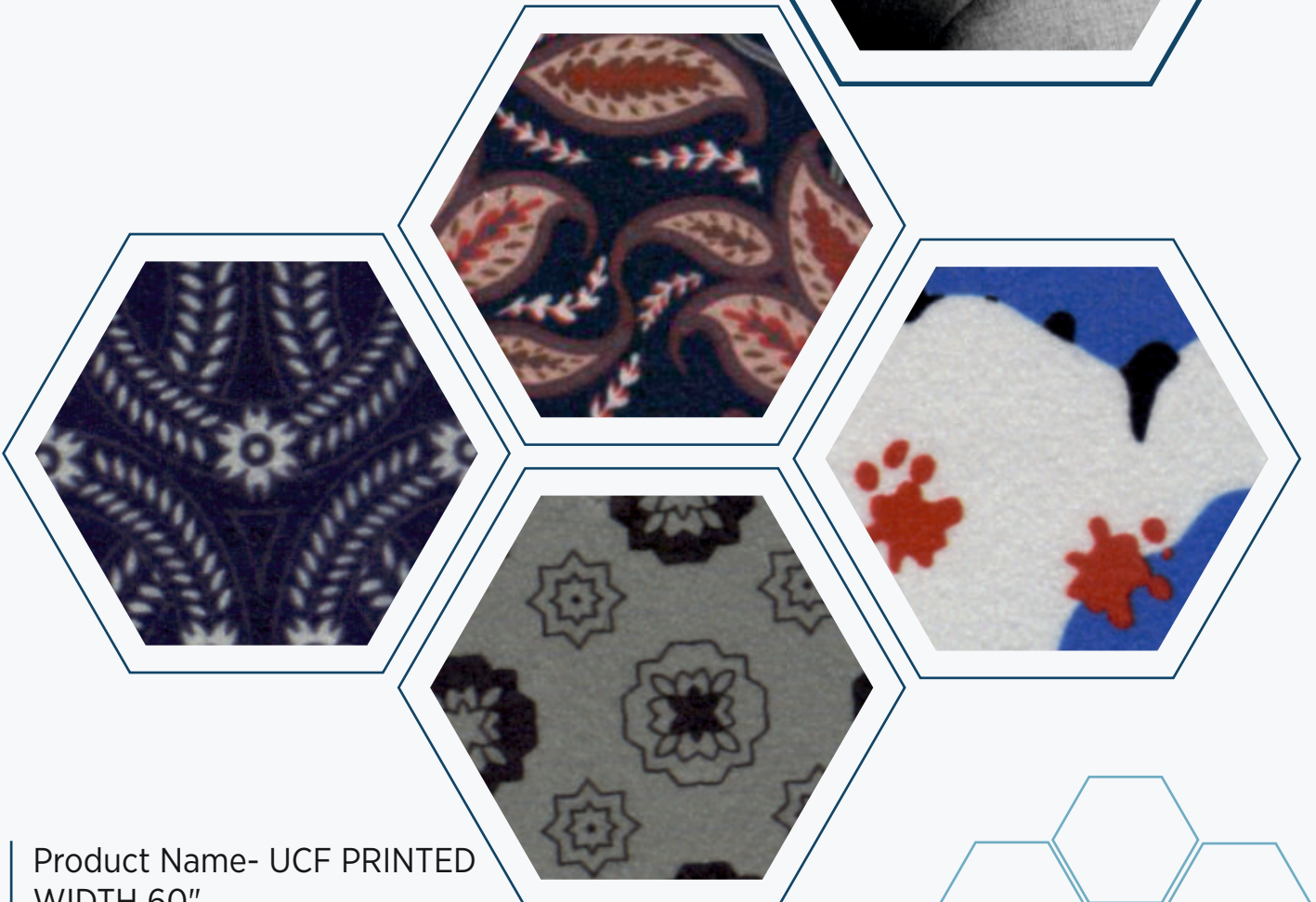
104/105, Malwa, Patanwala Ind. Estate, L.B.S. Marg, Ghatkopar (W), Mumbai - 400086, INDIA • Tel. : +91-22-2500 2811, 2500 2812
Email : info@biotechts.in / report@biotechts.in / biotechtestingservices@gmail.com / shilpanair@biotechts.in



PRINTED UNDER COLLAR FELT

“GIVING YOUR JACKET’S COLLAR THE SUPPORT IT NEEDS TO STAND UP TO THE COMPETITION.”

In finest suiting, undercollars are made of two parts: linen and felt. The linen and felt foundation is sewn together “on the bias” which allows the undercollar to be shaped and molded to smoothly and snugly around the neck. The two materials are cut on the bias to allow for stretching and shrinking, as necessary



Product Name- UCF PRINTED
WIDTH 60"
Length - 30 MTR
Customized prints with low moq of 100 MTR
GSM -180- 220



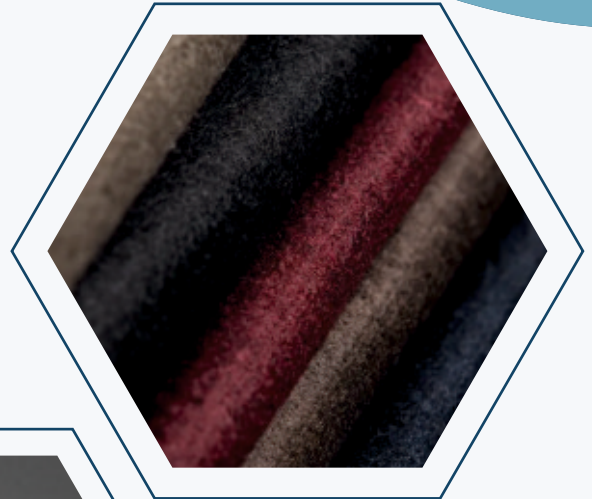


PRINTED UNDER COLLAR FELT

“GIVING YOUR JACKET’S COLLAR THE SUPPORT
IT NEEDS TO STAND UP TO THE COMPETITION.”

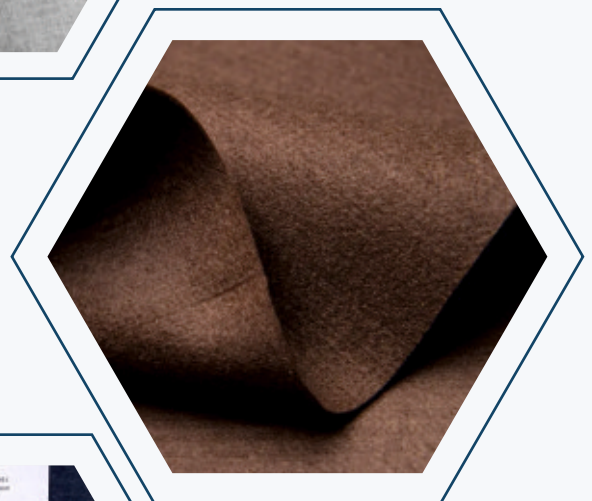
After Treatment Capabilities

- Calendaring
- Padding & Oven
- Lamination-With Nonwoven/Fabric,
With release paper, Membrane,
Aluminized film.



Final Converting

- Non-Toxic,Eco-friendly
- Thickness 10mm-50 mm
- Gsm 500-2000
- Sac .9 (2000 gsm)
- Nrc .6 (2000 gsm)
- Thermal insulation (clo) 4.91
- Maximum Size 72 x 48 inches

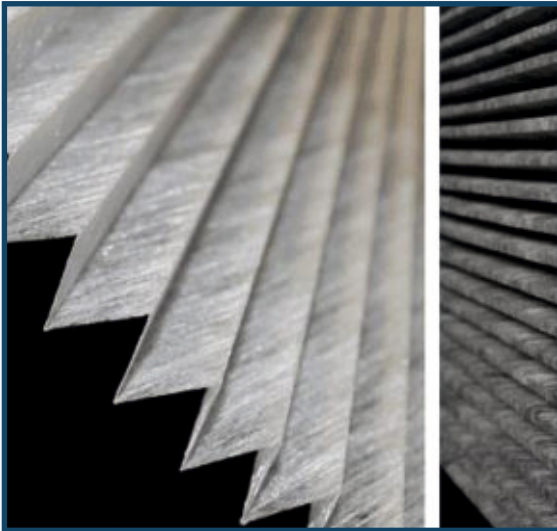


Product Name - UCF
Width - 60"
Length - 30 mtr
Weight -180-220 gsm
Low shrinkage
20 colors





FILTRATION – FOR DRY FILTRATION



For Ambient Air Filtration, we have engineered media to allow high air flow with the least differential pressure. They are used in air intake filter systems for big compressors, HVAC applications, engine air intake filters and as pre-filters for gas turbines. It's converted into panel, pocket or pleated form to suit the application and system in question.

Model No.: 6535

Color: White

Basic Weight: 110g/m²±10%

Thickness: 0.45mm±0.1

Air pressure: 1070 (200 pa/dm²/min)

Filter Efficiency for PM2.5: >80% and PM1.0 (up to 72%)

Application: Mainly Used for Automotive Cabin Air Filters

Model No.: 65354cb

Application: element air cleaner filter

Material: Polyester

Process : Needle Punch

Area Weight (ASTMD6242)

Thickness (150 9073-2)

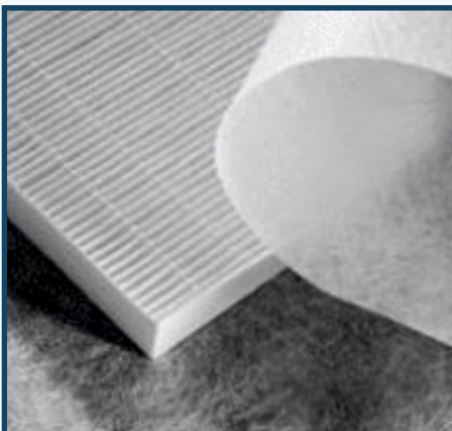
Air Permeability (ASTMD737@200Pa)

Tensile Strength (ASTMD5035)

Bursting Strength (ASTMD3786)

Application

| | |
|--------------------------|---------|
| gm/m ² | 275±10% |
| mm | 2.5±10% |
| l/dm ² /min | 700±20% |
| MD(Kgf/50mm) | >=25 |
| co(Kgf/50mm) | >=15 |
| Kg/cm ² | >=15 |
| Engine Intake Air Filter | |





Water Soluble Film/Pouch



Chemical Composition:-

The Product is composed of 65% to 80% of Polyvinyl Alcohol and remaining 20% to 35% of compound plasticizers and organic additive.

All the Substances are Water Soluble and Biodegradable

Physical and Chemical Properties:-
Appearance- Solid and translucent, Colour: Natural, red, yellow, blue, etc., and

Smell: slightly Fermented Odor,

Melting Point – 130°C to 135°C

Flammability – Burn at about the rate of paper

Effect of organic solvent – Resistant to most solvent

Decomposition temperature, More than 183°C

Explosion Danger –No

PH value – 6 to 8 (4wt% water soluble)

Specific Weight – 1.2 – 1.3g/cm³

Moisture content – Varies according to the temperature and humidity

Solubility in water – 25°C, dissolves within 60 seconds with stirring

Equilibrium moisture content (RH 50– 60) -6.8%

**Embroidery, Chemical
s Packing, Mold
releasing agent**

**Thickness 35 um, 45
um, 55 um, 65 um
SIZE 100MM-1400MM**

**HYGIENIC, CUSTOMIZABLE,
ECO-FRIENDLY, HEAT SEALING**





For embroidery

For Flush Tank

Water soluble film in circle available for packing Flush tablets

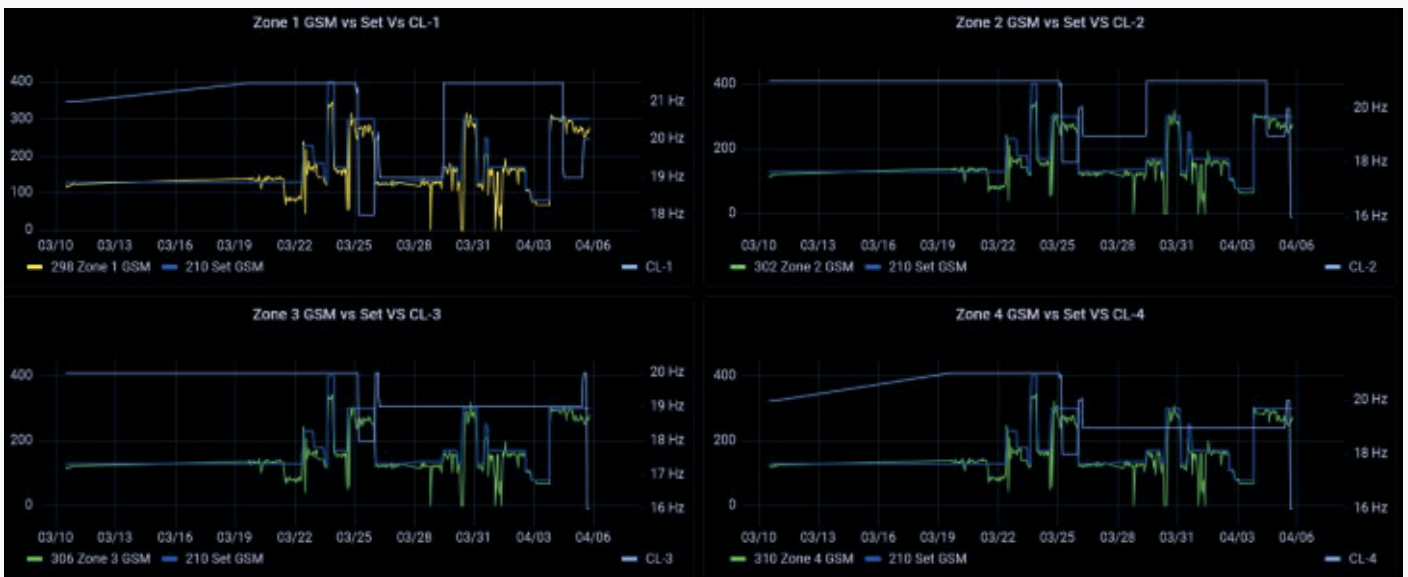


**HYGIENIC, CUSTOMIZABLE,
ECO-FRIENDLY, HEAT SEALING**



How do we do it?

Production is professionally managed as per industry 4.0 standards. The human resource is also placed out as per industry 4.0 standards starting from the managers, the shift in charge, machine operators and workers assisted by a maintenance team.



Sugu Fabrics and linings

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