

NEO TECH[®]

SMART INNOVATIVE FABRIC

PARTNER BRANDS



From the house of

GBTL



From the house of

OCM



INTRODUCTION

NEO TECH® is the culmination of extensive efforts in research and development; done with the intention of bringing a paradigm shift in the Indian Textile industry. Post the acquisition of GBTL and OCM, the Donear Group formally carved a niche for a R&D wing and - that was the advent of the NEO TECH® Center of Excellence.

The Group has been pioneer in introducing a lot of innovative products in the market in the past as well with products such as STREEZA (4-way stretch fabric), ICE-touch (making you 5 degrees cooler) and Uncrushables (for wrinkle resistance) amongst others, which are continuing to fare extremely well.

However, in the wake of COVID-19, a cross-functional/ cross-discipline team formed with industry stalwarts, illustrious chemical suppliers and technological institutions. With a goal to develop fabrics that are high quality, utilitarian and have a shield against bacteria and viruses alike. The fabric is revolutionary and has been certified by top-laboratories such as NABL accredited Bio Tech Services.

Leveraging NEO TECH® techniques, GRADO has developed specially designed anti-viral and anti-bacterial fabrics that inhibits growth and retention of micro-organisms, making them safe and hygienic. GRADO NEO TECH® anti-viral fabrics have been certified safe to wear/ use for any kind of garment-suits/ jackets/ trousers. These fabrics retain their properties up to even 50 washes, and are suited for everyday wear.

In addition to the anti-microbial collection, NEO TECH® Center of Excellence has also incubated a host of different performance products which are set to change the game of fabric as well as apparel industry.

NEOTECH[®] Snapshot



ANTI-VIRAL

Only product that is capable of keeping viruses away from the fabric and does not let them grow.



ANTI-BACTERIAL

Textiles that make viruses and bacteria inert. So you can be safe, and protected.



4-WAY STRETCH

The fabric stretches both width wise and length wise and provides freedom of movement.



MOISTURE MANAGEMENT

The fabric enables moisture generated from the body to evaporate easily.



COOL MAX FINISH

Acts as an insulator so keeps the fabric breathable and cool.



OIL & WATER REPELLENT

They prevent the fabric from being wetted or stained.



WRINKLE FREE

Special Liquid Ammonia treatment makes the fabrics not need ironing.

Certifications

All the products developed with NEO TECH® technology pass through stringent tests and approval measures. All the products are tested and certified by Govt. and NABL accredited testing labs such as BITRA, and BTS. Each batch produced in our facilities has a sample that is sent to these testing labs and the QA check is done accordingly. Here are some of those reports.



Date: 12.02.2019

REPORT NO - 151/WZ/AC/443

TEST REPORT:

RECEIVED FROM : Arindam Choudhuri

SENT BY : Embassy Silicones

FABRIC TYPE : 100% Cotton Shirting fabric

TESTED FOR : Water and Oil repellency

TRIAL TAKEN AT : DONEAR INDUSTRIES

RECIPES TAKEN WITH RESULT :

BULK TRIAL RECIPE	FABRIC DESCRIPTION	Water repellency				Oil repellency as per AATCC 118	
		Spray as per AATCC 22		Drip test as per AATCC 118		Water	Oil
		Initial	After 22W	Initial	After 22W		
9156 - WHITE		> 50	> 50	4	3	> 3	> 3
Flouorgard 22 - 45 gpl Extender CA - 15 gpl Life CP 46 - 15 gpl	9355 - CEIL BLUE	70	60	4	3	> 3	> 3
Pad - dry at 140-150°C curing at 160-190°C for 1 min - Surflo	9340 - PEWTER	70	60	4	3	> 3	> 3
	9147 - HUNTER GREEN	70	60	4	3	> 3	> 3
	9348 - BLACK	70	60	4	3	> 3	> 3
	9153 - WINE	70	70	4	3	> 3	> 3
	9344 - ROYAL BLUE	70	60	4	3	> 3	> 3
	9359 NAVY	70	60	4	3	> 3	> 3

SEEMA GAWANDI
ASSTT. R & D

MR. ARINDAM CHOUDHURI
SR. MANAGER - TECHNICAL

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Fluid Repellent Testing



BIOTECH TESTING SERVICES

Results:

Fabric swatches in contact with individual test cultures for 2 hrs. & 24 hrs. at 37°C showed the following results:

Sample Identification	Test Organism: MS2 Bacteriophage		Log Reduction of Virus at 2 hours	Percentage Reduction of Virus at 2 hours	Test Organism: Pseudomonas		Log Reduction of Virus at 24 hours	Percentage Reduction of Virus at 24 hours
	Average PFU/Carrier at 0 hours (B)	Average PFU/Carrier at 2 hours (A)			Average PFU/Carrier at 24 hours (B)	Average PFU/Carrier at 24 hours (A)		
Q No 17937 - 211 Black	8.20x10 ⁷	4.91	7.50x10 ⁷	3.87	1.04	90.88	7.80x10 ⁷	3.98
Lab Control Uninoculated Fabric			7.80x10 ⁷	4.89	0.82	4.87	6.30x10 ⁷	4.79

REMARKS:

- PFU: Plaque Forming Unit = No. of Microorganisms
- Percentage Reduction = $(B - A) / B \times 100$
- Log reduction Log (B/A)

Where:
B = Number of viable test microorganisms on the control carrier immediately after inoculation
A = Number of viable test microorganisms on the test carrier after the contact time

INTERPRETATION:
Fabric labeled as Q No 17937 - 211 Black has shown 90.88% and 95.48% reduction of Virus in 2 hours and 24 hours respectively when analyzed as per AATCC 100 - 2012 test Method using MS2 Bacteriophage as surrogate virus.



For BIOTECH TESTING SERVICES

Dr. Shiba U. Nair
Quality Manager
(Authorized Signatory)

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* Samples are not drawn by the laboratory. * Result valid only to the samples tested.
* The report shall not be reproduced except in full without prior permission of the laboratory.

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Anti-Viral Testing



BIOTECH TESTING SERVICES

Name of Test:

Evaluation of Antimicrobial Activity by AATCC 100 - 2012

Test Inoculum:

- Staphylococcus aureus ATCC 6538 (1.80 x 10⁷ CFU/ml)
- Klebsiella pneumoniae ATCC 4352 (2.00 x 10⁷ CFU/ml)

Additional Test Information:

- Sample size: 48 mm discs
- Pre-treatment of sample: Free assembling
- No. of swatches used: 4
- Inoculum Carrier: Phosphate Buffered water
- Neutralizer: DE Broth

Results:

Fabric swatches in contact with individual test cultures for 24 hrs at 37°C showed the following results:-

Sample Identification	Test Culture	No. of Bacteria per sample (CFU) Sample Inoculum Treated	Inoculated Treated Sample at 24 hrs. (A)	Percentage Reduction of Bacteria (%)
Q No 17937 - 211 Black	Staph aureus	1.92 x 10 ⁷	5.60 x 10 ⁷	99.70
	K. pneumoniae	2.00 x 10 ⁷	7.60 x 10 ⁷	99.65

REMARKS:

- CFU: Colony Forming Unit = No. of Microorganisms
- Percentage Reduction of Microorganism: $(R) = 100 (B - A) / B$

INTERPRETATION:
Fabric labeled as Q No 17937 - 211 Black has shown 99.70% and 99.65% antimicrobial activity towards Staphylococcus aureus and Klebsiella pneumoniae respectively when analyzed as per AATCC 100 - 2012 test Method.



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Anti-Bacterial Testing

Industry Use Cases

AVIATION



Known as an industry for their discipline and dashing personas! Nothing looks more glamorous than Pilots and their crew in uniforms. NEO TECH[®] products can make you conquer the skies- with hygiene and in comfort!

Suggested Finishes   

POLICE



With the supreme task of maintaining order and helping those in need, the Police Force has always come to the rescue of the nation and gone beyond their call of duty by ensuring we are safe. NEO TECH[®] products which aim for unrestrictive movement for an action-packed day.

Suggested Finishes    

DEFENCE



The real heroes of the country, across land, air and sea. They work and train to constantly be on-guard, and need clothing that can protect their respective activities.

Suggested Finishes   

Industry Use Cases

CORPORATE



Corporate uniforms define our business and are unify teams- this is applicable across industries. NEO TECH[®] products are custom designed for each industry.

Suggested Finishes



AUTOMOBILE



In full gear, these dedicated people take care of providing the best services-whether across the assembly line or in their stores. NEO TECH[®] products make for easy multi-tasking through the day.

Suggested Finishes



BANKS



Trusted by millions, they help keep our assets protected. They interact with hundreds of people in a day and need clothing to keep them and the people they interact with safe. NEO TECH[®] products help by allowing them freedom of movement for all their daily transactions.

Suggested Finishes



Industry Use Cases

HOSPITALS



Nothing instills more admiration and gratitude than the medical fraternity. NEO TECH® products are a small attempt to repay the debt of gratitude wowed them.

Suggested Finishes



HOSPITALITY



Known for their immaculate dressing and their charm, the hospitality industry has wow-ed us many a time. NEO TECH® products are a courtesy to further enhance their confidence.

Suggested Finishes



SCHOOLS & UNIVERSITIES



The future is with them, and the future is bright. Let's aim to nurture this future through what they learn and what they wear. NEO TECH® products can be customized and lent to a variety of garments for school children of all ages.

Suggested Finishes



Industry Use Cases



FACTORY WORKERS

The backbone of all services and products we provide to customers. They're the ones ensuring product quality and driving performance. NEO TECH[®] products can be made into various uniform sets to keep your staff protected wherever they work.

Suggested Finishes     



MUNICIPALITY WORKERS

The people who maintain and manage things which are crucial for our daily living. Involved in PWD activities such as garbage management, cleaning of public spaces and so on. NEO TECH[®] products protect and are hygienic and healthy options.

Suggested Finishes     



SECURITY GUARDS

They work around the clock to ensure that people are safe - be it for residential or office areas. NEOTECH[®] products can be made in to great solutions for them to weather all odds.

Suggested Finishes     

Our Visionary Customers

These fabrics have received wide acclaim from multiple industries- hospitality, hospitals, aviation, uniform providers (for schools/ universities/ factories), big-wigs from the retail industry and from the defense sectors. Multiple large-scale production orders from these industries are pouring in too.



and many more!

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CONTACT US

To know more about our product/ booking specifications/ custom orders and lead time, please get in touch with us:

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