



AMPP MASK

450 FORT ARGYLE ROAD
SAVANNAH, GA 31419





NINE LINE APPAREL
RELENTLESSLY PATRIOTIC

Company Overview

Homeland Sourcing

Homeland Sourcing was created during the current COVID-19 pandemic to source and develop PPE for USA. As a wholly owned subsidiary of Nine Line Apparel, HS has developed strong relationships with large organizations to create a new protective mask that can be a viable solution.

Nine Line Apparel

Nine Line Apparel is a veteran owned, patriotic apparel company that has over 8 years experience in global mass distributing. They are trailblazers in JIT manufacturing and establishing complex tech stacks to meet demand.

Partnerships

Tech Partners:

Salesforce, SAP, and Dell Boomi have provided free services to optimize our distribution capabilities allowing us to scale from 0 to 700k cloth masks distributed per day in under two weeks.

AMPP Mask Partner:

RCO Engineering is a Detroit based Aerospace, Automotive and Defense contracting firm specializing in prototyping, testing, and mass production of polymer injection molds such as the AMPP.

Filtration Media Sourcing:

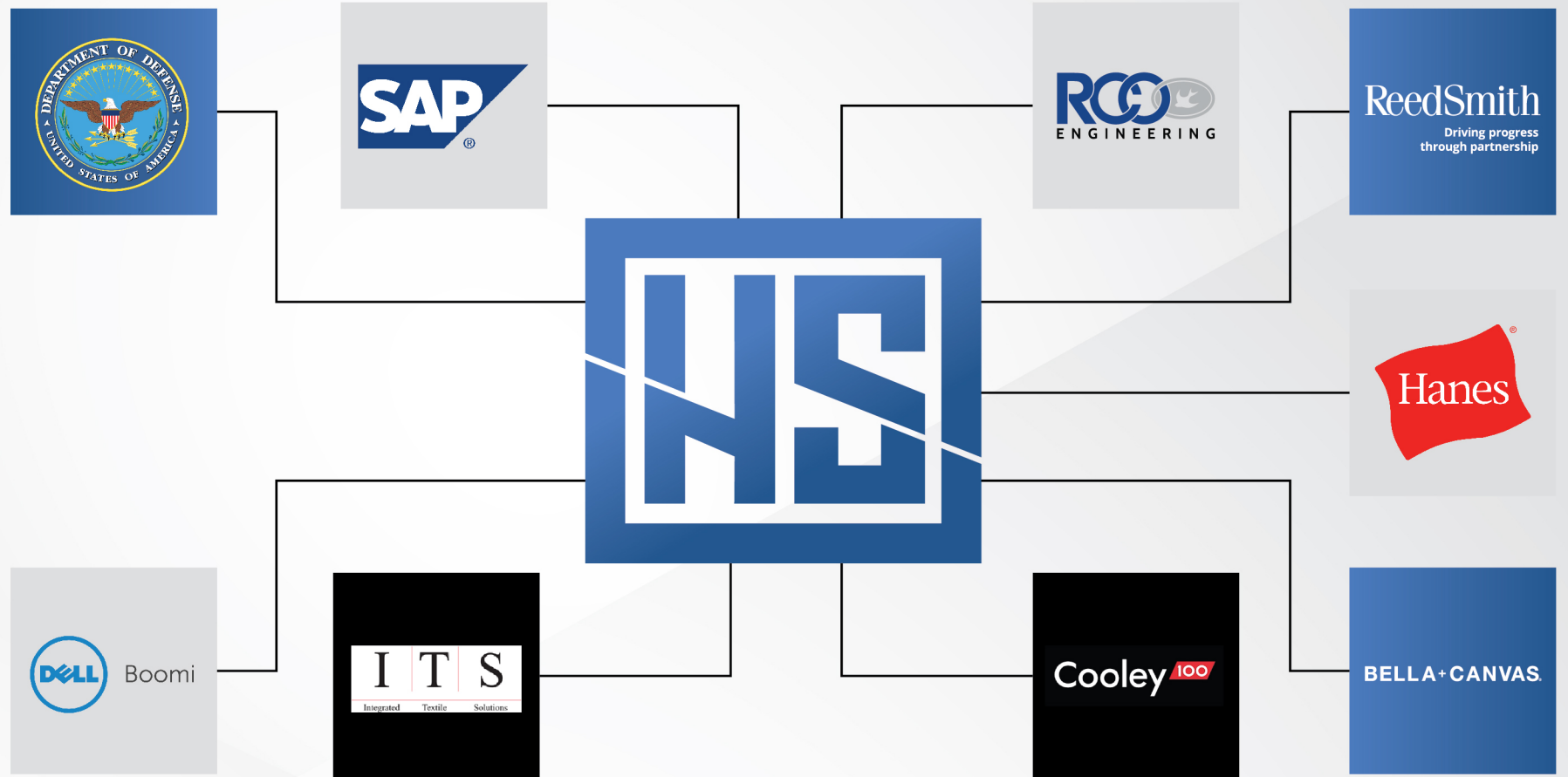
US based industry leaders in the design, manufacturing, and distribution of PTFE media.

Filtration Cutting Services:

Cutting and bagging operations for filtration media required for the mask is accomplished through the collaborative efforts of Hanes, Bella Canvas, and ITS cutting facilities.

Legal:

ReedSmith is lead counsel managing this FDA application process. Cooley is lead counsel managing design and utility patents associated with the AMPP.

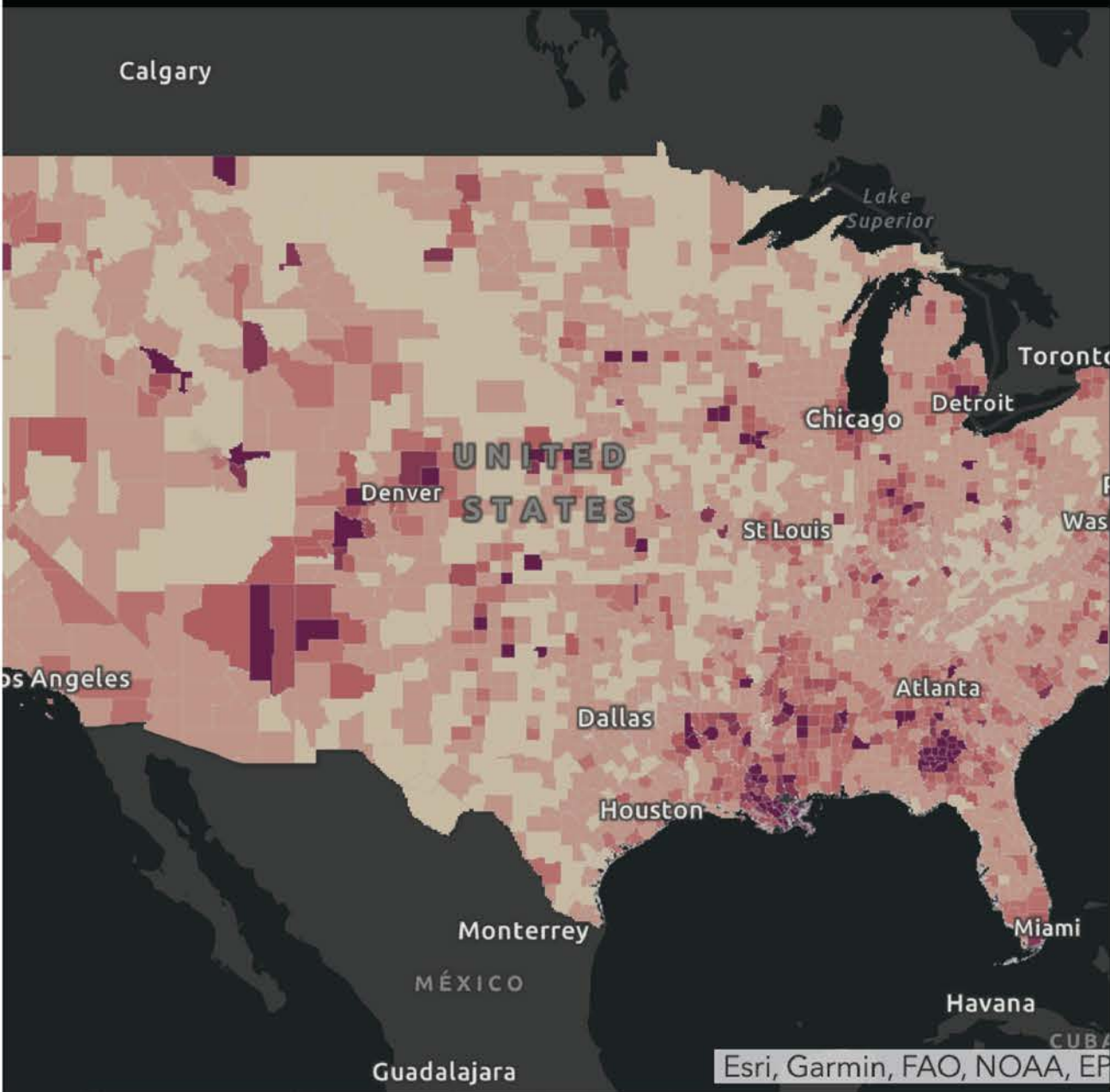


"Nine Line has been instrumental in developing and producing PPE required to meet the needs of our country, in alignment with our governments directive to provide the much needed PPE for the American public. They have worked tirelessly to rapidly transform their operations and are a testament to what American manufacturing companies have done for our nation in a time of crisis and uncertainty."

-Mike Faircloth, President, Global Operations, Hanesbrands Inc

"On behalf of the entire Department of Defense, thank you for coming to the aid of your community in these difficult times, and embodying the selfless spirit of America's Veterans"

-Mark Esper, SECDEF



Problem Statement:

COVID-19 has exposed the flawed N95 mask supply chain and created a dire need for PPE across the country.

Analysis:

As a nation we have become overly dependent on foreign manufacturing which leaves a huge gap in readily available PPE. First Responders and everyday Americans are being exposed to pathogens without proper protection. Due to lack of FDA cleared PPE, shelter in place has become the only viable solution, causing mass layoffs and closure of businesses. While hospital groups are slowly rebuilding their stockpiles of N95 respirators, first responders, military members, essential workers, and immunocompromised citizens are going without. Current masks are out of stock and price gouging is rampant.

Proposal:

Develop a 100% reusable half face mask of FDA cleared medical grade TPE. Acquire mass quantities of FDA cleared foreign made PTFE membrane filtration media while developing scalable US based filtration media.

Homeland Sourcing Competitive Advantage

As a wholly owned subsidiary, Homeland Sourcing can leverage Nine Line's tech suite relationships and JIT manufacturing capabilities.

Founded in 2012 by former Special Operations Air Mission Commander, Nine Line's growth rate was recognized as the 31st fastest growing privately owned company in 2016.

Nine Line is recognized in GA by GA Tech and GaMEP as an industry leader in JIT manufacturing practices. Nine Line is currently managing over one hundred thousand product variants sold online, in our retail locations, and large EDI wholesale partnerships.

"Tyler and the extended Nine Line team have demonstrated themselves to be true Americans, who rolled up their sleeves in our country's time of need. We are proud to have them as partners and we are impressed with their effort to push further into more substantial, medical grade facemarks.

-CEO Bella + Canvas



NINE LINE APPAREL
RELENTLESSLY PATRIOTIC



**100,000 +
Customer Orders**

**1,000,000 +
Masks Shipped**



BELLA+CANVAS.

Partnership



Proposed Solution

The Homeland AMPP (American Made Personal Protective) Mask is a patent-pending, American Made injection molded product developed in response to the recent COVID-19 pandemic. It is designed as a reusable mask that comes with a 10pk of replacement filters.

Advantages

- American Made - Sourced and printed in Detroit, MI
- Patent Pending - Design/utility patent submission details
- Durable - Injection molded TPE and Polypropylene
- Economic - Reusable with replaceable filters
- Adjustable - Head strap ensures secure, comfortable fit
- Scalable - Volume rapidly increases with additional molds



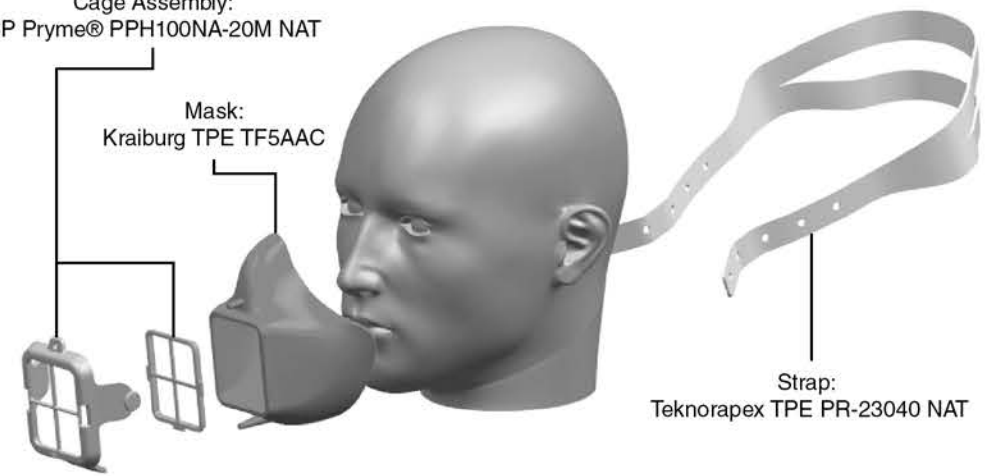
AMPP Injection Mold Mask Information



Cage Assembly:
CP Pryme® PPH100NA-20M NAT

Mask:
Kraiburg TPE TF5AAC

Strap:
Teknorapex TPE PR-23040 NAT



ISO Certification
ISO 9001:2015
ISO 14001:2015



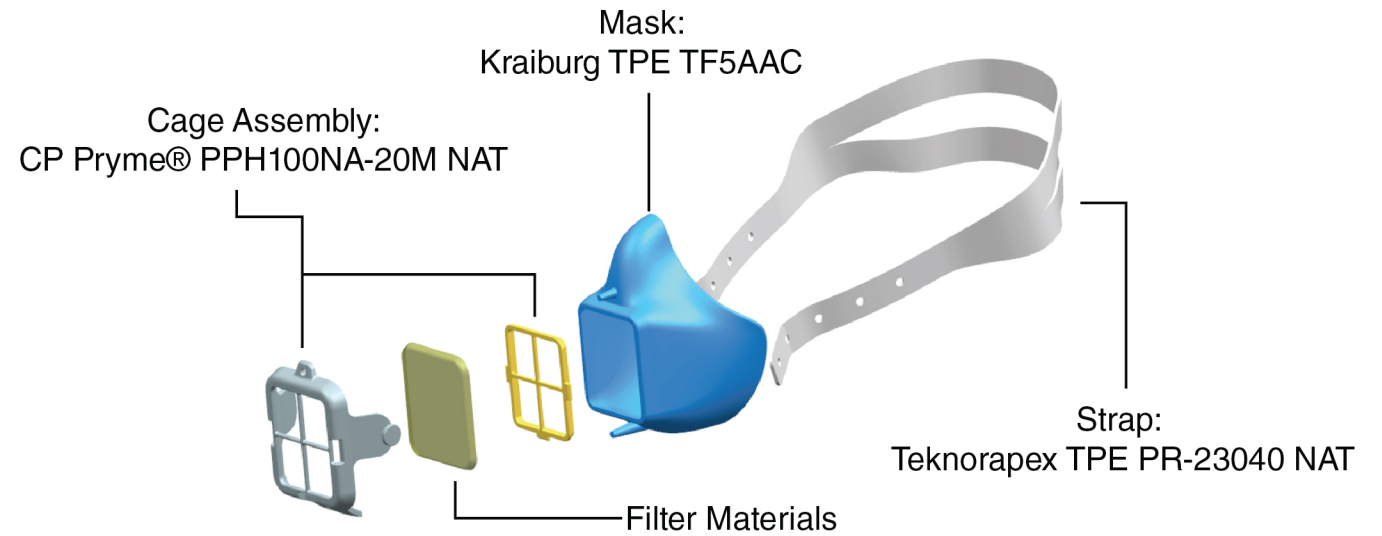
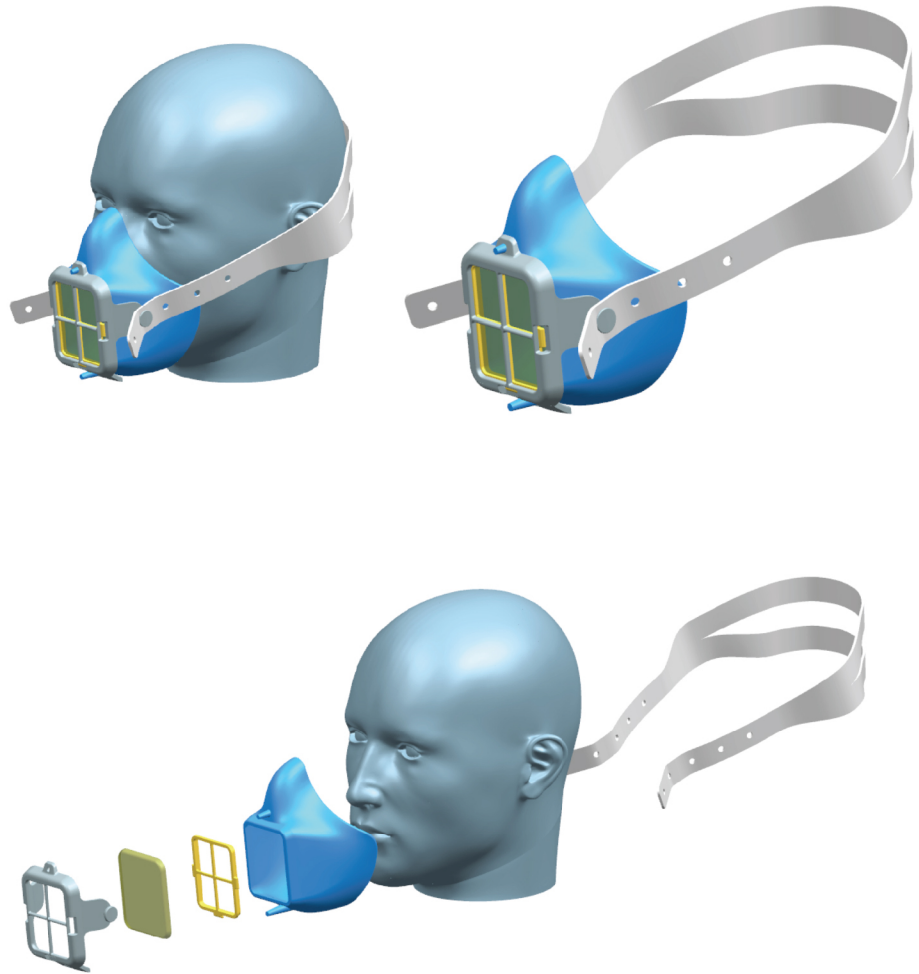
Logistics Information



AMPP Injection Mold Mask Information - Continued



AMPP Injection Mold Mask Information - Continued



PTFE Filtration



ISO Certificates



ISO 18001:2007



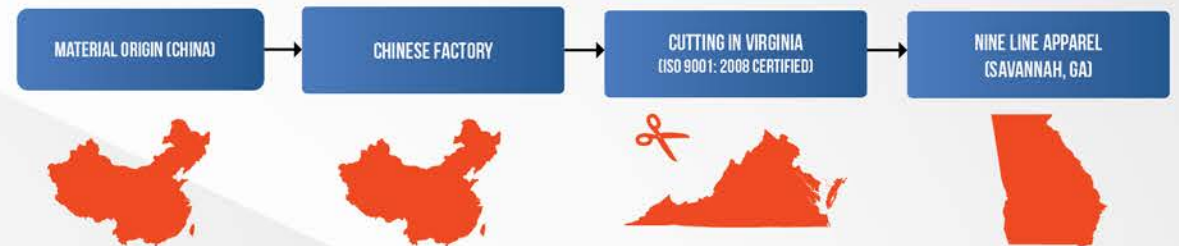
ISO 14001:2015



ISO 9001:2015

*Unredacted documents available upon request

Logistics Information



USA Made Filter Information



Product Data Sheet

*Unredacted documents available upon request

Leading the Nanofiber market in
 •Consistency • Versatility
 •Commercial Viability.

Technical Data Sheet

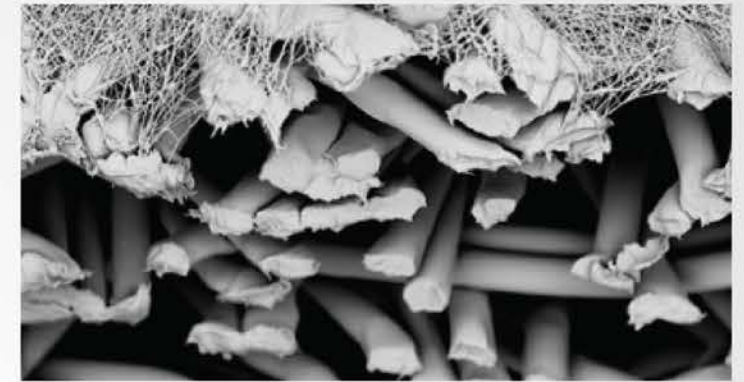
- Style Number: (NP097) – 3 Layer Light Weight Composite Filter Media.
- Description: N95 - Polypropylene/nanofiber/Polyester composite filter media.
- Construction: Polypropylene spunbond nonwoven w/nanofiber fine filtration layer and a surface layer of polyester nonwoven for use in surgical masks
- Finish: Sonic Lamination

Property	Target	Metric	Test Method
Weight	2.06 - 2.39 (70 - 80)	oz/yd ² (g/m ²)	ASTM D461
Air Permeability	n/A	ft ³ (ft ³ /1000ft ²)	TAPPI 410
	28 - 55	ft ³ /min/ft ² @ 0.5" @ 1" H ₂ O	ASTM D-737 (0.5, 1) (Comments)
Thickness	140 - 180	l/dm ² /min @ 200 Pa	DIN 5387
	0.040 - 1.00	inches (mm)	TAPPI 411
Compaction Depth	n/A	inches (mm)	TAPPI 411
MERV Rating	MERV 16+		ASHRAE 52.2
Filtration Rating	Ref. F7	> 95% efficient at 0.3 micron at 5.33cm/sec face velocity	TSI 3100
Target Pressure Drop	< 60 pascals	Pascals at 5.33cm/sec face velocity	TSI 3100
Tensile Strength (MD)	n/A	lbs/2"	ASTM D-881
Available Widths	10.0" or 254mm 63.8 or 1620	inches mm	
Process Data	Roll length up to 1200 linear meters. Supplied on 76mm or 3.0" ID cores		
Applications	Surgical Face Mask Applications		

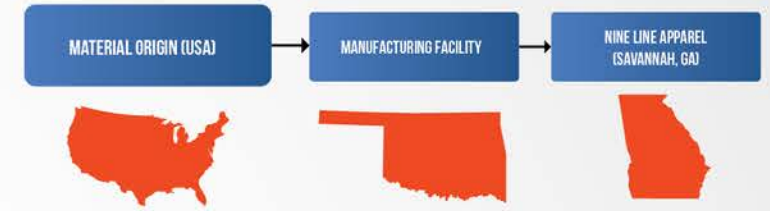
Target specifications are an average of 5 readings across the width of the sample roll.

Revision A

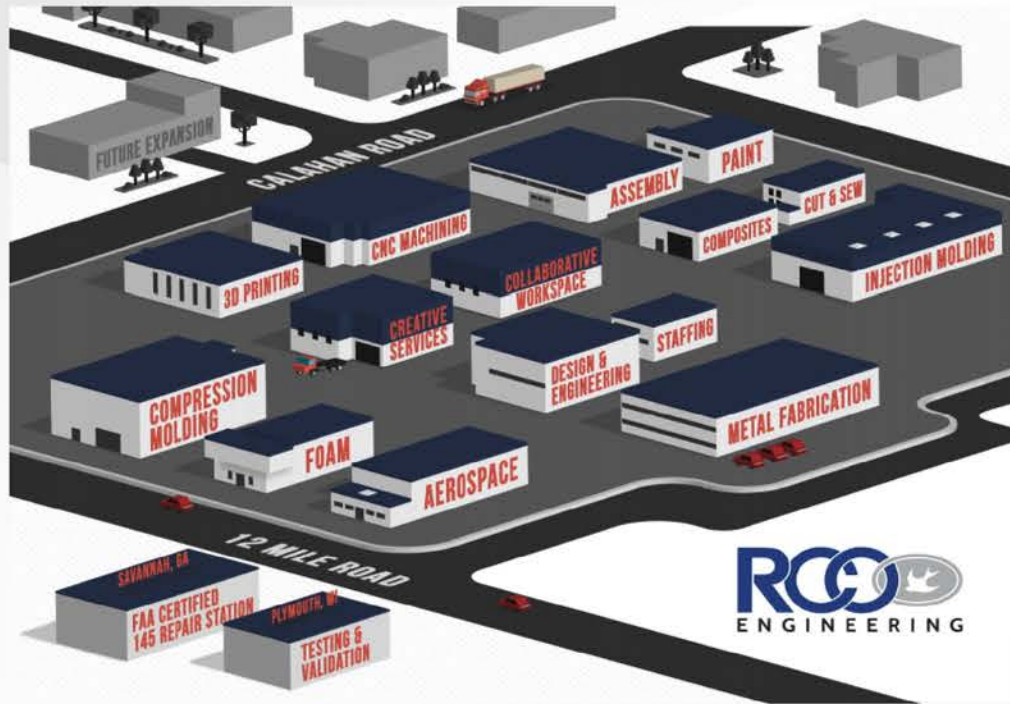
Filter Specs (Available Upon Request)



Logistics Information (Available Upon Request)



Current Demand & Production Capabilities



Production Capabilities With Current Resources

Current Production
2000 Masks/Day
100,000 Filters/Day

Scaled Production

167,000 Masks/Month
1,667,000 Filters/Month

30 Days - Full Speed

5 Million Masks
50 Million Filters

Over 1,200 Organizations Interested

Currently 50,000 Units Requested

Frontline Worker Feedback

"Working with Nine Line, we are able to provide inmates with two masks each along with additional masks for our officers working in the jail. This is essential in protecting our staff, inmates and our community."

-Parla Parker, PIO, Chatham County (GA) Sheriff's Office



"This is comfortable; something that I could wear for extended periods"

- Trooper



"It's definitely more comfortable than the mask we use now, and I can breathe out of it."

- Nurse



"Masks are a requirement on base now, and I could wear this all day without complaining."

-Military Servicemember



"Nine Line has always supported first responders but the creation of these masks goes to show how far they are willing to go to help protect us"

- EMT