

Face Masks

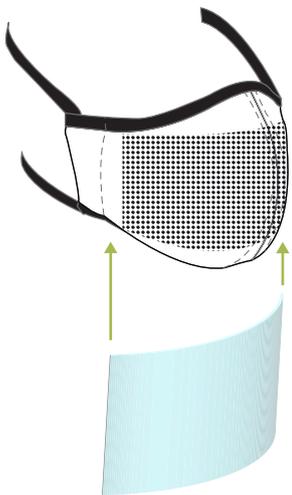
Protective. Reusable. Eco-friendly.

Get these eco-friendly wash-and-wear masks. Choose from a variety of base colours or take advantage of this opportunity to give your brand more exposure while doing your bit to prevent the spread of the virus. Don't waste money on disposables, when you can go reusable.



Locally
manufactured
and printed

Promote your
company while
protecting staff



Wash, reuse and replace filters by sliding them between the outer fabric

Brits D15 Covid-19 Filter Element Non-woven synthetic material

White P30 Woven 200g | Anti-microbial coating | Water resistant outer fabric lining is a 200gsm peached tri coat warp knit

Reusable Face Mask	Base Colour	Qty 100-1000	Qty 1000-2000	Qty 2000+
Unbranded	Any	R 45.00	R 43.00	R 41.00
Branded Full Colour	Any	R 53.00	R 51.00	R 49.00

10 working days lead time • Minimum order 100 units
All prices exclude VAT and artwork



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Brits D15 COVID-19 Filters

This mask is fitted with a Brits D15 Filter element.



Together with hand-washing, good sanitation and social distancing, the wearing of a suitable mask is a valuable weapon in the arsenal of the war against the virus.

The current challenge

Many people do not know that they have COVID-19, and unknowingly spread the virus through direct and indirect contact. The infection is mostly spread through airborne droplets which contain the virus, produced through talking, coughing or sneezing. These micro droplets then deposit on nearby surfaces, items and other people.

Scientists have measured a pressure level of 6000 Pa in the windpipe of a person who sneezes. These droplets can travel up to 2 metres and land on the faces of people nearby, and can even be inhaled into their lungs.

In order to significantly reduce the virus's ability to spread, it is important that we protect each other. If I wear a mask, I protect you; to protect me in return, you must please wear a mask too.

The World Health Organisation confirms this in their published bulletins. The following is from the WHO website, updated 29th March 2020.

Modes of transmission of the COVID-19 virus

Respiratory infections can be transmitted through droplets of different sizes: when the droplet particles are $>5-10\mu\text{m}$ in diameter, they are referred to as respiratory droplets, and when they are $<5\mu\text{m}$ in diameter, they are referred to as droplet nuclei. According to current evidence, the COVID-19 virus is primarily transmitted between people through respiratory droplets and contact routes. In an analysis of 75 465 COVID-19 cases in China, airborne transmission was not reported.

This information is absolutely critical. What it tells us is that the primary mode of infection for the general population is via droplets. The droplets are greater than 5 microns in size, and are generated by talking, coughing and sneezing.

The airborne state of the virus smaller than $5\mu\text{m}$ mainly occurs in hospitals, where they have specialised masks to take care of the virus in nuclei or aerosol form.

The risk that you and I face, therefore, is micro droplets of $5\mu\text{m}$ or larger.

A key to reducing the rate of infection is to disrupt the transport system for the virus. One of the most effective ways we can do this is by controlling and managing the droplets which are the key mechanisms for virus transport.

The filter system for masks that we have created is designed to do exactly that, trapping any particle that is $5\mu\text{m}$ and above. The mask actually entraps many smaller particles as well, but the real holdout is 95% effective above $5\mu\text{m}$.

As there are no standard specifications for face masks for the general population. Brits Nonwoven cooperated with Stellenbosch University to develop an interim minimum requirement that would be suitable for COVID-19 masks to be worn by anyone other than medical personnel. This mask specification and test regime was therefore designed for the public. As the main threat is a respiratory particle which has a known size distribution, the method of testing agreed upon was ISO 14644-1. The reasoning for this was that all hospital clean rooms and theatres are currently tested for air quality using this method. This method determines the particle sizes that the filter element will entrap, and the particle sizes that will pass through.

D1 S Filter Element Specification

	DESCRIPTION	METHOD	SPECIFICATION	TEST RESULTS
1	Composition	Chemical Analysis	Polypropylene 3B - 42%	Polypropylene 39%
		Chemical Analysis	Polyester 48 - 52%	Polyester 50%
		Chemical Analysis	PAA9 - 11%	PAA 11%
2	Construction	Physical Analysis	3-Layer Sandwich	3 Layer-Sandwich
3	Mass per unit area Breathability	SANS 79	100gsm ± 5%	103gsm
4	Breathability	SANS 6163	>4500gsm	5631gsm
5	Airflow	ASTM D737	700 - 800cfm	740cfm
6	Thickness	SANS 85	3,0 -4,9mm	3,8mm
7	Moisture Particle Entrapment	ISO 14644-1	0, 5µm - ISO 8 level	Complies
		ISO 14644-2	1 ,0µm - ISO 8 level	Complies
		ISO 14644-3	5,0µm - ISO 7 level	Complies

Cleaning procedure

1. Remove mask from your face carefully - do not touch the mask, but remove by the straps only.
2. Place complete unit in a bowl and pour boiling water over it. Make sure it is fully covered with boiling water.
3. Wash your hands using hand-washing protocols for COVID-19.
4. Wash your face using COVID -19 protocols.
5. Leave complete mask in the hot water for at least 5 minutes.
6. Rinse the mask under cold running water.
7. If the mask has dirty marks on it, remove the filter and only then hand-wash the mask gently.
8. Cleaning procedure Do not squeeze or hand-wash the filter. The delicate structure may be damaged.
9. Leave both filter and mask to air-dry. Once both components are dry, insert filter back into mask - it is now ready to wear again.
10. Once the filter has been sterilised 5 times, discard it after sterilising and insert a new filter which must also be sterilised before use.



Brits D15 COVID-19 Filters

Healing our nation with #Masks4All



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PARTICLE COUNT CERTIFICATE ISO 8 TO ISO 14644-1

DATE:	25 March 2020	TEST EQUIPMENT	
NEXT SERVICE DUE:	TBA	PARTICLE COUNTER:	LASAIR III 310C
CLIENT:	Birts Nonwoven	ANEMOMETER:	TESTO 425
VA Serv. Rep. REF. No:	49 477		CALIBRATION DATE: see certificate
UNIT / AREA:	Vivid Air Factory D15 Filter Element & Finlam Outer COD		SERIAL No: see certificate
ORDER No:			CALIBRATION DATE: see certificate
TEST STANDARD:	ISO 14644-1		SERIAL No: see certificate
SERVICE TECHNICIAN:	S. Duma		

FILTER / AREA	0,5 MICRON SIZE PARTICLES	1,0 MICRON SIZE PARTICLES	5,0 MICRON SIZE PARTICLES
Filter/Area 1			
Count 1	2390590	191386	777
Count 2	2679042	318960	1412
Count 3	2525934	276642	1200
Count 4	2199304	184653	848
	SINCE THE AVERAGE COUNTS FOR 0,5 MICRON SIZE PARTICLE IS LOWER THAN 3,520,000 (TAKING 95% UCL INTO ACCOUNT) THE CONDITIONS FOR THE ABOVE UNIT COMPLIES WITH ISO STANDARDS & CONDITIONS AS PER ISO 14644-1	SINCE THE AVERAGE COUNTS FOR 1,0 MICRON SIZE PARTICLE IS LOWER THAN 832,000 (TAKING 95% UCL INTO ACCOUNT) THE CONDITIONS FOR THE ABOVE UNIT COMPLIES WITH ISO STANDARDS & CONDITIONS AS PER ISO 14644-1	SINCE THE AVERAGE COUNTS FOR 5,0 MICRON SIZE PARTICLE IS LOWER THAN 29,300 (TAKING 95% UCL INTO ACCOUNT) THE CONDITIONS FOR THE ABOVE UNIT COMPLIES WITH ISO STANDARDS & CONDITIONS AS PER ISO 14644-1

AVERAGE VELOCITY:	-	M/Sec	MAGNAHELIC READING:	-	Pa	UNIT / AREA STATUS	Passed
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ADDITIONAL REMARKS:	0.5 and 1.0 micron passes under ISO 8 conditions. 5.0 micron passes under ISO 7 conditions.
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Yours faithfully

Sibusiso Duma

Approved by _____
(Client Signature)



5475 Airport Boulevard, Boulder, Colorado 80301-2339
303.443.7100 1.800.238.1801 Fax: 303.546.7380
Customer Service Center 1.877.475.3317
Instrument Service and Support 1.800.557.6363

Certificate of Calibration

Date: Oct-11-2019 11:19:54

Customer Name: Vividair Work Order: SA0184
Service Notes: None

Unit Under Test

Instrument: LasairIII_310C Serial Number: 109108
Firmware Version: PCE: B2B53624 1.9 Calibration Due: Oct-11-2020

Environmental

Temperature: 23 Deg C Relative Humidity: 37%

Certification

Particle Measuring Systems certifies that the instrument listed above meets or exceeds manufacturing specifications and meets the requirements of ISO 21501-4:2007. It has been calibrated using equipment and/or standards whose accuracies are traceable to the National Institute of Standards and Technology (NIST), or have been derived from acceptable values of natural physical constants, or by the ratio type of self-calibration. This instrument was calibrated in accordance with the Particle Measuring Systems quality system documentation which meets ISO9001:2008 requirements. This certificate may not be reproduced, except in full, without written consent from Particle Measuring Systems.

Calibration Standards

Procedure Used: Program Used: 1000013097 Rev K

Instrument Condition Received

In-Tolerance Out-of-Tolerance Operational Failure

Particles Used

<u>Particle Size</u>	<u>Std Deviation</u>	<u>Lot Number</u>	<u>Expiration Date</u>	<u>Uncertainty</u>
0.303 micron	1.900	205483	Jan-31-2021	0.001
0.508 micron	1.700	205491	Jun-30-2020	0.008
0.994 micron	1.000	186953	Jul-31-2020	0.010
5.027 micron	1.000	194633	Feb-28-2021	0.010

References Used

<u>Type</u>	<u>Serial Number</u>	<u>Calibration Due</u>
LasairII-110	65588	Dec-26-2019
Flow Meter	40461201001	Jun-24-2020

Performed by

Technician Name: Albrecht Truter

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