



Mask barrier efficiency test results

This document certifies the results of the mentioned test(s) carried out under controlled conditions on fabrics for COVID-19 cloth masks. <i>Instrument calibration certificates available on request.</i>	
Samples submitted by: Endless Summer	Test conditions supervised by: A Gericke Dept. of Chemistry and Polymer Science, University of Stellenbosch
Responsible person: Andrew Moorhouse	
Date: 11/5/2020	
End use: Cloth masks Style: FILTER LAYERS	

TEST METHOD: Barrier efficiency test based on ISO14644 – adapted to measure the efficiency of textile fabrics and filter materials for use in cloth face masks to be used during COVID-19 pandemic.

(The purpose of these masks is to prevent transmission of small respiratory droplets from the wearer to the environment. Cloth masks are not PPE). The test method is based on the attainment of a 5 micron particle count after transmission of an air stream through the sample and an air flow rating that represents the air permeability of the sample.

Results are rated on a 4-point scale as shown below to prevent misinterpretation.

RATING:	1	2	3	4
Explanation:	Very poor	Poor	Good	Excellent
Value (B)	0-25%	25-50%	50-75%	75-100%
Value (AP)	0-25%	25-50%	50-75%	75-100%

Sample code	Nr of layers	Barrier rating (5micron particles)	Barrier rating (1micron particles)	Air flow rating
FIBRETEX B140-B140	2	4	4	4

Signed 11 May 2020

University Disclaimer regarding tests done on textile fabrics intended for cloth face masks:

Although the testing of textile fabrics for the use in cloth face masks are carefully conducted, no guarantees or warranties are made by Stellenbosch University (“SU”) for the effectiveness and quality of the textile fabrics and filter materials used in the cloth face masks (intended for use by the public during the COVID-19 pandemic) as provided for in this report.

The cloth face masks are used entirely at own risk and SU does not accept any liability whatsoever arising from the use thereof, or the reliance on the information contained in this report.

SU has strict policies which regulates the protection of its name, brand, trade marks and intellectual properties (“SU’s IP”). As such, please be advised that unauthorised and unlawful use of SU’s IP by any company manufacturing or selling the cloth masks is strictly prohibited by SU.

We advise that companies may indicate ‘tested in conjunction with a leading university’ or ‘based on information obtained from a leading university’.