



**Van Laere International nv**  
**Mevr. Nathalie Van Laere**  
**Zwaarveld 48**  
**9220 HAMME**

**Your notice of**  
 25-06-2020

**Your reference**

**Date**  
 03-07-2020

**Analysis Report 20.03966.01**

Required tests :

**ISO 9237 (1995)**

**EN ISO 16890-2 (2016)**

**ISO 6330 (2000) + A1 (2008), ISO 6330 (2012)**

**Centexbel**

**Determination of air permeability**

**Filter efficiency**

**Washing and drying**

**Testing Community masks - §8.2 and §8.3 (NBN DTD S 65-001)**

Identification number	Information given by the client	Date of receipt
T2013898	LAYER 1 (main fabric)	25-06-2020
T2013899	LAYER 2 (filter)	25-06-2020
T2013900	LAYER 3 (lining)	25-06-2020
T2013901	Community mask	25-06-2020

**Lies Alboort**  
**Order responsible**

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 The results of the analysis cover the received samples. Centexbel is not responsible for the representativeness of the samples.  
 In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.



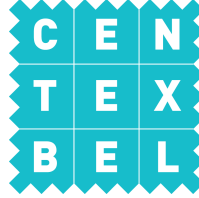
**Reference:** M2013996  
 T2013898 - LAYER 1 (main fabric)  
 T2013899 - LAYER 2 (filter)  
 T2013900 - LAYER 3 (lining)

**Determination of air permeability**

Date of ending the test 29-06-2020  
 Standard used ISO 9237 (1995)  
 Product standard NBN DTD S 65-001 (2020)

Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Textest FX 3300  
 Gauge surface 20 cm<sup>2</sup>  
 Tested side Outer side  
 Underpressure used 1 mbar (100 Pa)  
 Number of measurements 10

	Air permeability
	l/(m <sup>2</sup> .s)
#1	511
#2	520
#3	492
#4	521
#5	529
#6	506
#7	509
#8	497
#9	493
#10	497
Average	507 l/(m <sup>2</sup> .s)



**Reference:** M2013997  
T2013898\_01d - LAYER 1 (main fabric)  
T2013899\_01d - LAYER 2 (filter)  
T2013900\_01d - LAYER 3 (lining)

### Filter efficiency

Date of ending the test 03-07-2020  
Standard used EN ISO 16890-2 (2016)  
Product standard NBN DTD S 65-001 (2020)

Execution at external facilities – witnessed by Centexbel-personnel

The results of this test relate only to the samples in the external facilities conditions.  
The performance results cannot by themselves be quantitatively applied to predict filtration in all “real life” environments.

### Test conditions

Test aerosol	KCl
Air flow rate (m <sup>3</sup> /s)	1.000
Temperature (°C)	23
Barometer Pressure (hPa)	987.4
Relative humidity (%RV)	56

### Result

Average Efficiency in % at 3 μ **91**



**Reference: T2013898 - LAYER 1 (main fabric)**

**Washing and drying**

Date of ending the test	29-06-2020
Standard used	ISO 6330 (2000) + A1 (2008), ISO 6330 (2012)
Product standard	NBN DTD S 65-001 (2020)
Deviation from the standard	30 minutes at 60°C
Apparatus	Wascator FOM 71 (type A)
Used detergent	ECE detergent (Type 3)
Washing method and temperature	6N- 60°C (2012)
Drying method	F = tumble dry (•) (2012)
Number of washing cycles	5
Mass of the test specimens	694 g
Remark	Washing always occurs with a ballast type III 100% PES regardless of the composition of the fabric.

Sample generated: T2013898\_01d

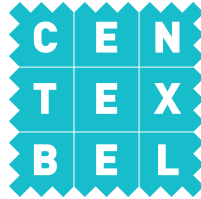


**Reference: T2013899 - LAYER 2 (filter)**

**Washing and drying**

Date of ending the test	29-06-2020
Standard used	ISO 6330 (2000) + A1 (2008), ISO 6330 (2012)
Product standard	NBN DTD S 65-001 (2020)
Deviation from the standard	30 minutes at 60°C
Apparatus	Wascator FOM 71 (type A)
Used detergent	ECE detergent (Type 3)
Washing method and temperature	6N- 60°C (2012)
Drying method	F = tumble dry (•) (2012)
Number of washing cycles	5
Mass of the test specimens	417 g
Remark	Washing always occurs with a ballast type III 100% PES regardless of the composition of the fabric.

Sample generated: T2013899\_01d

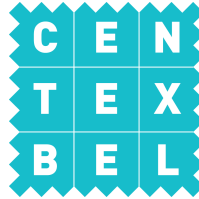


**Reference: T2013900 - LAYER 3 (lining)**

**Washing and drying**

Date of ending the test	29-06-2020
Standard used	ISO 6330 (2000) + A1 (2008), ISO 6330 (2012)
Product standard	NBN DTD S 65-001 (2020)
Deviation from the standard	30 minutes at 60°C
Apparatus	Wascator FOM 71 (type A)
Used detergent	ECE detergent (Type 3)
Washing method and temperature	6N- 60°C (2012)
Drying method	F = tumble dry (•) (2012)
Number of washing cycles	5
Mass of the test specimens	350 g
Remark	Washing always occurs with a ballast type III 100% PES regardless of the composition of the fabric.

Sample generated: T2013900\_01d



**Reference: T2013901 - Community mask**

**Testing Community masks - §8.2 and §8.3 (NBN DTD S 65-001)**

Date of ending the test 29-06-2020

§8.2 Visual inspection of new face mask

Check of general confection, length of elastics/straps, soiling, etc.

§8.3 Resistance head securing

Verification of the tensile strength of the head securing is done by putting on the mask 5 times and taking it off.

This is done by 3 persons with different morphologies,

Result	
8.2 Visual inspection	Pass
8.3 Resistance head securing	Pass (*)

(\*) All 3 of the test persons found the lowest elastic too wide. This was however no reason for failure.



## Sample history

### T2013898\_01d

#### LAYER 1 (main fabric)

From sample T2013898 and the following procedure (LAYER 1 (main fabric) )

#### Washing and drying

Date of ending the test	29-06-2020
Standard used	ISO 6330 (2000) + A1 (2008), ISO 6330 (2012)
Product standard	NBN DTD S 65-001 (2020)
Deviation from the standard	30 minutes at 60°C
Apparatus	Wascator FOM 71 (type A)
Used detergent	ECE detergent (Type 3)
Washing method and temperature	6N- 60°C (2012)
Drying method	F = tumble dry (•) (2012)
Number of washing cycles	5
Mass of the test specimens	694 g
Remark	Washing always occurs with a ballast type III 100% PES regardless of the composition of the fabric.

### T2013899\_01d

#### LAYER 2 (filter)

From sample T2013899 and the following procedure (LAYER 2 (filter))

#### Washing and drying

Date of ending the test	29-06-2020
Standard used	ISO 6330 (2000) + A1 (2008), ISO 6330 (2012)
Product standard	NBN DTD S 65-001 (2020)
Deviation from the standard	30 minutes at 60°C
Apparatus	Wascator FOM 71 (type A)
Used detergent	ECE detergent (Type 3)
Washing method and temperature	6N- 60°C (2012)
Drying method	F = tumble dry (•) (2012)
Number of washing cycles	5
Mass of the test specimens	417 g
Remark	Washing always occurs with a ballast type III 100% PES regardless of the composition of the fabric.

### T2013900\_01d

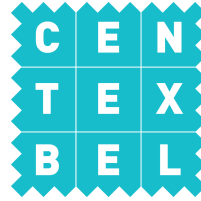
#### LAYER 3 (lining)

From sample T2013900 and the following procedure (LAYER 3 (lining))

#### Washing and drying

Date of ending the test	29-06-2020
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Standard used	ISO 6330 (2000) + A1 (2008), ISO 6330 (2012)
Product standard	NBN DTD S 65-001 (2020)
Deviation from the standard	30 minutes at 60°C
Apparatus	Wascator FOM 71 (type A)
Used detergent	ECE detergent (Type 3)
Washing method and temperature	6N- 60°C (2012)
Drying method	F = tumble dry (•) (2012)
Number of washing cycles	5
Mass of the test specimens	350 g
Remark	Washing always occurs with a ballast type III 100% PES regardless of the composition of the fabric.

#### **M2013996**

Sample composed of  
T2013898 (LAYER 1 (main fabric) )  
T2013899 (LAYER 2 (filter))  
T2013900 (LAYER 3 (lining))

#### **M2013997**

Sample composed of  
T2013898\_01d (LAYER 1 (main fabric) )  
T2013899\_01d (LAYER 2 (filter))  
T2013900\_01d (LAYER 3 (lining))