



**Groupe Kolmi Hopen SAS**  
**Mme. Elaura ROSSIGNAUD**  
**BP 10059**  
**49124 SAINT-BARTHÉLEMY-D'ANJOU**  
**CEDEX**  
**France**

**Your notice of**  
05-02-2020

**Your reference**

**Date**  
27-02-2020

## Analysis Report 20.00716.01

Required tests :

**EN 14683 (2019) + AC (2019)**

**EN 14683 - annex C (2019) + AC (2019)**

**Medical face masks - Breathability (differential pressure)**

Identification number	Information given by the client	Date of receipt
T2002716	#11 Medical Face Mask, Type IIR	05-02-2020

Sylvie Niessen  
Order responsible

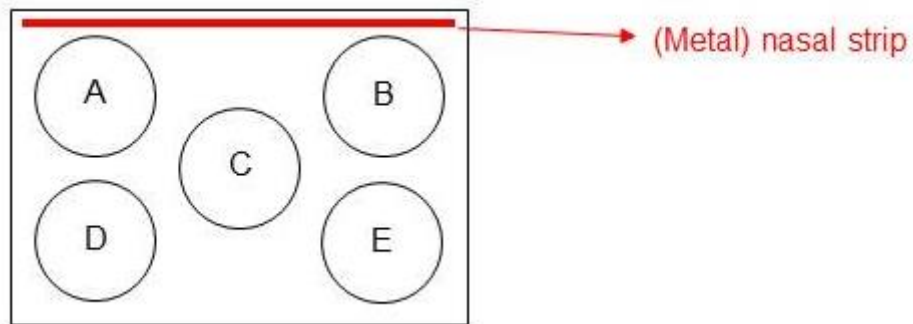
This report may be reproduced, as long as it is presented in its entire form, without written permission of Centexbel.  
The results of the analysis cover the received samples. Centexbel is not responsible for the representativeness of the samples.  
In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.

**Reference: T2002716 - #11 Medical Face Mask, Type IIR**

**Medical face masks - Breathability (differential pressure)**

Date of ending the test	12-02-2020
Standard used	EN 14683 - annex C (2019) + AC (2019)
Product standard	EN 14683 (2019) + AC (2019)
Mask description	Type IIR, 4 layers, blue, tie on
Number of tested masks :	5
Number of areas per mask	5 (see figure)
Dimension of the areas :	Disc whose diameter is 2.5 cm
Surface areas :	4.9 cm <sup>2</sup>
Flow rate :	8 l/min.
Direction of the air flow :	From the inside of the mask to the outside
Masks conditioning :	21 ± 5°C and 85 ± 5% RH

Figure : Distribution of the areas in the mask





**Results**       $\Delta P$

	Mask 1	Mask 2	Mask 3	Mask 4	Mask 5
Area A	23.2	23.0	23.8	24.2	22.4
Area B	22.0	21.8	23.6	26.7	25.3
Area C	25.5	24.0	22.8	22.8	26.3
Area D	24.4	22.0	24.9	25.3	24.4
Area E	21.2	23.8	25.7	26.1	26.3
<b>Average <math>\Delta P</math> (Pa/cm<sup>2</sup>)</b>	<b>23.3</b>	<b>22.9</b>	<b>24.2</b>	<b>25.0</b>	<b>24.9</b>