certam recherche technologique	Report	Title	Tests report
		Reference	mgp\1937_ 19082020 15h41.pdf
CERTAM 1, RUE JOSEPH FOURIER		Title	30 cleaning cycle(s)
76800 SAINT ETIENNE DU ROUVRAY	Prestation	Reference	
Phone: (33) 2 35 64 37 00		Recipient	

For further informations on this test report, contact <u>masques-gd-public@certam.fr</u>

Remarks	
Composition of the report	4 pages, with 1 annex

Les essais sont réalisés en application de la note d'information interministérielle du 29 mars 2020 relative aux nouvelles catégories de masques réservées à des usages non sanitaires.

Selon les termes de cette note, ils devront être complétés pas un test porté pendant 4 heures, à réaliser par l'industriel. Le masque ne doit pas avoir de couture sagittale (verticale nez bouche).

<u>Avertissement</u>: les résultats ne permettent pas une certification ou homologation selon les normes NF EN 149, NF EN 14683, ni selon toute autre norme ou règlement.

VISA:

Frédéric Dionnet General manager of CERTAM

Date: 19/08/2020



1. SAMPLES TRANSMITTED

Producer	
Samples date of receipt	07/08/2020
Internal reference	07-08-2020%1937%A

Producer reference	
Product type	
Description of transmitted samples	

2. TESTS METHOD

The tests have been realized following the CEN CWA17553:2020 document. Air permeability and filtration efficiency tests are described in annex.

3. RESULTS

Tests		Containment of particles projection (1)
Features		Measure
Air permeability (L.m ⁻² .s ⁻¹)	Vacuum pressure of 100 Pa	98
Filtration efficiency (%)	Particles 3 μm	94

(1) Containment of particles: measured flow from inside to outside, exhaled air



4. CONCLUSIONS

In accordance with the CEN CWA17553:2020 relating to the new community face covering for medical use, after 30 cleaning cycle(s) show

an air permeability and a filtration efficiency suitable for class 1 mask (protective masks for professional users in touch with public).

Furthermore, we draw your attention to the fact that :

« The breathability measurement must be completed by a wearing test during 4 hours, this test must be realized by the producer. The mask must not have a sagittal suture (vertical nose to mouth) »



Annex for test method

Air permeability

The breathability of the material is measured with a permabilimeter.

The test piece made from the sample has an area of 14.52 cm².

The air surface flow rate(L.m⁻².s⁻¹) through the material is measured at a fixed vacuum pressure (100 Pa).

The CEN CWA17553:2020 impose a minimum flow rate of 96 L.m⁻².s⁻¹.

The breathability measurement must be completed by a wearing test during 4 hours, this test must be realized by the producer.

Filtration efficiency

The mask or material is die-cut in order to make a disk with a diameter of 48 mm. The sample is positioned in a test section filled with polydisperse « Holi » powder. The aerosol concentration in the test section and the flow rate through the sample (from inside to outside) are measured. The result given is the efficiency (E) corresponding to the percentage of particles (around 3 μ m) stopped by the material.

Two levels of community face covering are considered according to their filtration efficiency to particles around 3 μm :

- Class 1 (protective masks for professional users in touch with public)

Efficiency > 90%

- Class 2 (protective masks aimed to protect a group of people wearing those masks)

Efficiency > 70%

