

**DOLOMITCERT**

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TEST REPORT

Client (\$):	COLLEXTION MEDICAL DIVISION SPA
Address (\$):	Via Theodore Roosevelt, 27 - 81100 CASERTA CE - Italy
Article:	Particle filtering half masks
Model (\$):	03-2021
Sampling:	Performed by the Client
Job no.:	D210498
Report no.:	210554 This document is only the English translation of the test report number 210553 issued in date 13/04/2021 by Dolomitcert S.c.a.r.l
Receiving Date:	02/04/2021
Date of Test Begin:	12/04/2021
Date of Test End:	13/04/2021
Issuing Date:	13/04/2021
Standard Applied:	Internal method for EN 149:2001+A1:2009 - Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking

Note 1: This Test Report is valid exclusively for the samples utilized for tests and any modification shall be solely performed with the issuing of a new test report.

Note 2: The partial divulgation of this test report is permitted against written authorization by Dolomitcert.

Note 3: If not otherwise stated, the declared measurement uncertainty must be intended as extended uncertainty with a 95% confidence level and a cover factor $k = 2$.

Note 4: For the conformity assessment (PASS or FAIL) the contribution of the measurement uncertainty for the test is NOT considered (measurement result \pm measurement uncertainty exceeds the standard limit - PASS)

Note 5: Results proposed in this Test Report refer to the samples as received.

Laboratory Technical Manager:
Luca Tamburlin

Issuing Date: 13/04/2021

Internal method for EN 149:2001+A1:2009 – Particle filtering half masks

Sample Identification

Samples used for the tests have been identified as follow:

Model / External Code (\$)	Batch N° / Serial N°	Sample internal code
03-2021	None	210553_1
		210553_2
		210553_3
		210553_4
		210553_5
		210553_6
		210553_7
		210553_8

Penetration of filter material

EN 149:2001+A1:2009, Internal method for clause 7.9.2

Requirements

The penetration of the filter of the particle filtering half mask shall meet the requirements of the Table below:

Classification	Maximum penetration of test aerosol of paraffin oil sodium chloride 95 l/min %
FFP1	20
FFP2	6
FFP3	1

Outcomes

Tests gave the following results in accordance with clause 8.11 of EN 149:2001+A1:2009 using the Penetration tests according to clause 5.3 and 5.4 of EN 13274-7.

Internal method for EN 149:2001+A1:2009 – Particle filtering half masks

A) Test with paraffin oil aerosol in accordance with EN 13274-7:2019. Flow rate at 95 l/min

Samples	Condition	Type of test	Penetration(%) ⁽¹⁾
210553_2	As Received	Penetration test	1.15
210553_3		Penetration test	0.57
210553_4		Penetration test	0.74
210553_1		Exposure test	1.46

⁽¹⁾ For the penetration and exposure tests with paraffine oil, the number median of particle size distribution is 159 nm with a geometric standard deviation of 1.86, thus the number median of particle size distribution is lower than that required in EN 149:2001+A1:2009, which shall be between 290 and 450 nm.

B) Test with sodium chloride aerosol in accordance with EN 13274-7:2019. Flow rate at 95 l/min

Samples	Condition	Type of test	Penetration(%)
210553_5	As Received	Penetration test	0.08
210553_6		Penetration test	0.39
210553_7		Penetration test	0.14
210553_8		Exposure test	1.68

Conformity

Samples	Classification of the particle filtering half masks in accordance with their filtering efficiency against paraffin oil and sodium chloride aerosol		
	FFP1	FFP2	FFP3
210553_1 210553_2 210553_3 210553_4 210553_5 210553_6 210553_7 210553_8	PASS	PASS	FAIL

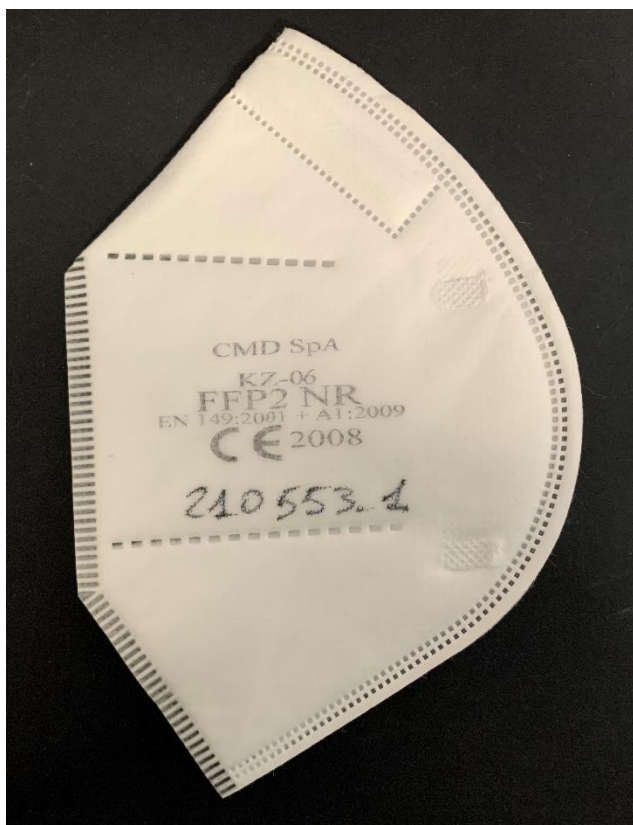


Figure 1: Picture of the sample 210553_1

Legend

PASS: Positive conformity assessment (test's outcome lies within standard requirement or limit)

FAIL: Negative conformity assessment (test's outcome DOES NOT lie within standard requirement or limit)

N/A: Test not applicable

N/E: Evaluation not performed

N/P: Test not performed

(\$): This information was provided by the Client, therefore Dolomitcert declines responsibility for it.

End of the test report